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Summary of British Columbia Herring Sampling Data for the 1988-89 Season

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ABSTRACT

Hamer, L. and J. Schweigert. 1989. Summary of British Columbia herring sampling data for the 1988-89 season. Can. Data Rep. Fish. Aquat. Sci. 777: 121 p.

Age compositions and the average length and weight at age, the sex ratio, and the maturity stages of herring samples combined by geographical area, time period, gear type, and source are tabulated for the 1988-89 season. Tables are given for two geographical groupings: statistical areas and sections.

Key words: herring samples, age compositions, geographical groupings

RÉSUMÉ

Hamer, L. and J. Schweigert. 1989. Summary of British Columbia herring sampling data for the 1988-89 season. Can. Data Rep. Fish. Aquat. Sci. 777: 121 p.

Ce rapport présente la répartition par âge, la taille moyenne et le poids en fonction de l'âge, la proportion par sexe et les stades de maturité de harengs échantillonnés en 1988-1989, par région géographique, période de l'année, genre d'engin de pêche et provenance. Les tableaux sont divisés en deux regroupements géographiques: zones statistiques et sections.

Mots-clés: harengs échantillonnés, répartition par âge, regroupements géographiques

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INTRODUCTION

Biological samples of herring are collected and sampled annually for length, weight, sex, maturity, age, and gonad weight. This information is used in stock assessments, and for determining stock characteristics. As well, it is useful to fishery managers in the field. This report summarizes biological charcteristics by geographical groupings, time periods, gear, and source types.

Individual fish records since the 1950-51 season are maintained on computer files. These files provide a 39-year series of data accessible for anaylses and modelling.

METHODS

The catch sampling program collects samples from a variety of sources.

Pre-fishery charters provide the majority of samples. Charter vessels assess all major herring stocks to obtain biological sampling data and to provide information for management of roe fisheries (Armstrong 1988). (A "major" stock is defined as a stock that can regularily support roe fisheries.) An additional goal in 1989 was to sample minor stocks in several areas to determine the potential for future roe fisheries on these stocks. Charter timing was set to ensure that the vessels were available before and during the main spawnings in each area. Department of Fisheries and Oceans (DFO) staff on board the charter vessels collected samples from the test sets.

Commercial samples were obtained from two types of fisheries: roe fisheries, and food and bait fisheries. Roe fisheries are sampled with the goal of obtaining ten samples from each seine fishery, and six samples from each gillnet fishery. A sampling plan is designed for each fishery to ensure that the sample series collected represents the catch in terms of time, gear distribution, and space. The food and bait fisheries are currently very small both in quota and numbers of vessels licensed to fish (Chalmers, 1987). Consequently, each vessel participating in the food and bait fishery is expected to provide a biological sample.

Various programs within DFO organized research cruises and collected biological samples.

All biological samples are frozen on board vessels and shipped to the Pacific Biological Station where they are processed following standard procedures described by L. Hamer (in press). Gonad maturities are classified according to a modified Hjort maturity scale (Table 1). Female roe maturities in the data summaries are defined as:

Immature - Hjort stages 1-4
Mature - Hjort stages 5-6
Spent - Hjort stages 7-8.

Fish classified as immature in estimating the sex ratio are those whose gonads were not sufficiently developed for sex determination.

DATA COMPILATION AND SCREENING

The recorded data are entered onto computer tapes. The data are screened by computer for relationships between age, length, and weight which are outside the normal range for the coast as a whole (mean $\pm$ 2 standard deviations). Anomalies are listed and the associated data checked for possible errors in recording or coding.

AGE DETERMINATION

Herring ages follow the "year of life" convention. Therefore, fish in their first year are designated as age one, although their first birthday would not occur until the following March (i.e., birthdays are at spawning, and not on January 1, which is the convention for many other fish species).

A revised system of ageing herring has been used since the 1987-1988 season. Prior to that season, a fish was either assigned an age or was classified as unageable. With the revised ageing system, the option of two possible ages was used when it was difficult to positively determine an age. This system has not yet been evaluated. As a result, the age compositions in this report are based only on fish for which a single age was assigned.

RESULTS

Four hundred biological samples were processed in the 1988-89 season.

Fourteen pre-fishery charter vessels sampled all major stocks, as well as some minor stocks in statistical areas 2W, 8, 9, 10, 11, and 12. The charter vessels working in the Queen Charlotte Islands assessed fishable stocks in area 2W. This resulted in the seine quota being taken from area 2W (Louscoone Inlet), rather than from area 2E as planned. There were no potential roe fishery sites identified as a result of sampling minor stocks in areas 8

through 12, but the vessel chartered to look at these areas did obtain 17 samples. A total of 253 pre-fishery charter samples were processed.

The 1989 roe herring fisheries occurred in the Queen Charlotte Islands, Prince Rupert District, Central Coast, Strait of Georgia, and West Coast of Vancouver Island regions (Figs. 1-6), between March 6 and April 4. A quota of 33,720 tonnes was set for the 1989 fisheries, which increased the 1988 quota by 7877 tonnes. The number of openings also increased from 14 in 1988 to 24 in 1989. One hundred and one samples were processed from these openings.

The food and bait herring fisheries took place in the Johnstone Strait and Strait of Georgia regions, during November and December of 1988. Thirteen food and bait herring samples were obtained from the Strait of Georgia region but the two vessels licensed to fish in the Johnstone Strait region were unable to provide any samples.

Research samples in the 1988-89 season were collected from four sources. The La Perouse project conducted a research cruise (August 4-15, 1988) to study offshore herring biology, using the F/V SUN MAIDEN, which obtained six samples. The W. E. RICKER also provided six research samples. These fish were caught in tows made on a joint hake/La Perouse cruise off the west coast of Vancouver Island. Another six research samples were acquired by the DFO seiner WALKER ROCK, which conducts annual fall and winter hydro-acoustic surveys in the lower Strait of Georgia. The Nestucca barge spill (Dec. 23, 1988), of bunker C fuel oil off the Washington coast created the fourth source of research samples. Two vessels were chartered to conduct herring assessment studies of the spill, and this resulted in seven more research samples being collected.

The following types of information, with associated table numbers, are summarized in this report:

Maturity stages for Pacific herring	Table 1
Charter vessel information	Table 2
Roe herring fishery summaries	Table 3
Codes for sample data	Table 4
Week numbers for sample data	Table 5
Sample summaries	Table 6
Data summaries	Tables 7 - 13

The data summaries include various groupings of samples by geographical areas, time periods, gear and source types. Each summary contains information on the age composition, the average length and weight at age, the sex ratio, and the maturity stages of the combined samples in that report.

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Table 1. Maturity stages for Pacific herring (adapted from Bowers and Holliday 1961; Parrish and Saville 1965). These descriptions are intended as general guidelines. Length of time samples have been frozen, thawing time, and different handling procedures may alter the colour of the gonads. Therefore, the texture of the gonad is also used to assess maturity. The timing description is also a general guideline due to the wide range in spawn timing on the British Columbia coast.

Stage	State of maturity	Gonad appearance	Description	Timing
I	Undeveloped	Thread-shaped	Virgin herring with small gonads, less than 2 mm broad. Accurate macroscopic determination of sex not possible. Fat is visible in the body cavity.	Year-round for young herring usually less than 150 mm in length. (However, some herring as small as 125 mm may have mature gonads.)
II	Starting	Ribbon-shaped	Gonads increased in breadth to 3-5 mm. Sex determination difficult. Testes reddish-grey coloured and knife-shaped. Ovaries reddish-wine coloured and bullet-shaped at tip. (The gonads of virgins and some repeat spawners cannot be differentiated macroscopically.) Fat is visible in the body cavity.	Late spring and early summer.
III	Developing	Tube-like	Gonads thickened, increased in breadth (5-15 mm) and elongated, but not extending full length of body cavity. Ovaries red to reddish-orange, granular in appearance, and bullet-shaped at the tip. Tests reddish-grey, smooth in appearance, and knife-shaped.	Usually late summer to early fall, but may extend into winter and early spring.
IV	Maturing	Prominent	Gonads extend full length of body cavity. Ovaries reddish-orange to yellow; eggs distinguishable, opague, variable in size and separate. Testes mostly grey, firmer, and will ooze milt if sliced with a knife. Blood vessels often clearly visible in the ovary and testes walls.	Usually late fall and winter, but may extend to as late as March. (Slightly earlier in males than females.)
V	Mature	Bulging	Few or no blood vessels visible in gonad walls. Walls of body cavity thin. Ovaries gold-yellow, firm and will often break into sections. Eggs mostly transparent and uniform in size. Testes usually milk-white, soft and plump; and sperm will flow under pressure.	Mid winter to late spring.
VI	Ripe	Running	Gonads do not hold their shape. Ovaries look and feel gelatinous. Segmentation is lost. Eggs are transparent and sticky to the touch. Testes runny, and have a curdled appearance. Sperm flows easily without external pressure.	A few days prior to spawning (usually in late winter to spring.)
VII	Spent	Baggy	Gonads slack. Sex determination difficult. Ovaries may contain a few residual eggs. Testes limp and bloodshot. Body wall thin and no fat present; blood in body cavity.	Spring for the first few weeks following spawning.
VIII	Recovering	Compressed	Gonads wine-coloured and usually longer, fuller and not as slack as Stage VII. Blood vessels prominent. Little or no fat in the body cavity.	Late spring and early summer.

Table 2. 1989 herring charter vessels by region and duration, and biological samples by vessel.

Region	Vessel	Duration	Samples Processed
Queen Charlotte Islands	CHRISTAV	07/03 - 01/04	25
	SEMIDI	10/03 - 09/04	18
Prince Rupert District	NEEKIS	20/03 - 01/04	18
	PACIFIC DISCOVERY	14/03 - 08/04	13
Central Coast	FISHER LASSIE II	03/03 - 03/04	18
	SEABOUND	20/03 - 08/04	4
	WESTVIEW NO. 1	01/03 - 31/03	30
Strait of Georgia / Johnstone Strait	ARGENT NO. 1	23/02 - 20/03	13
	NEEKIS	27/02 - 11/03	11
	PACIFIC OCEAN	27/02 - 24/03	22
	ROYAL MARINER NO. 1	23/02 - 20/03	13
	SEABOUND	20/03 - 08/04	13
West Coast Vancouver Island	ANTE B	26/02 - 23/03	19
	ELLING K	23/02 - 20/03	7
	KASATA	23/02 - 20/03	10
	VIKING JOY	23/02 - 20/03	19
Total			253

Table 3. Summary of 1989 roe herring fisheries.

Region	Gear	Management Areas	Date	Time	Hailed Catch (tonnes)
Queen Charlotte Islands	SN	2-31,32,33	28/03/89	0855-1433	1129
Prince Rupert District	SN	5-4,5,8	02/04/89	1015-1900	1588
	SN	5-4,5,8	03/04/89	0801-1200	1553
	GN	3-2,4,4-5,6-9,14	02/04/89	0900-2000	2722
	GN	3-2,4,4-5,6-9,14	03/04/89	0830-2000	1744
	GN	3-2,4,4-5,6-9,14	04/04/89	1200-1400	154
Central Coast	SN	6-16,19,25	24/03/89	1001-1800	4314
	SN	7-3	25/03/89	0701-0920	1363
	GN	6-16,18, 7-19,21,23,24	30/03/89	1000-1800	830
	GN	6-16,18, 7-3,12,19,21,23,24	31/03/89	0800-1800	515
	GN	6-16,18, 7-3,12,19,21,23,24	01/04/89	1000-1800	560
	GN	6-16,18,7-3,12, 7-18,19,21,23,24	03/04/89	0800-1930	313
	GN	6-16,18,7-3,12,18, 7-19,21,23,24,25	04/04/89	0700-1800	228
Strait of Georgia	SN	14-11	06/03/89	1302-1625	623
	SN	14-11,15	07/03/89	1316-1631	41
	SN	17-3,4,16,17	11/03/89	1256-2032	643
	SN	17-3,4,16,17	12/03/89	0649-1506	249
	GN	14-7,9,10,11	07/03/89	1000-1737	2449
	GN	14-7,9,10,11	09/03/89	0900-1500	771
	GN	14-4,5,7,9,10,11,13	15/03/89	0900-1700	2549
West Coast Vancouver Island	SN	23-8,9,10	13/03/89	1002-1220	6410
	SN	23-8	17/03/89	1015-1230	
	SN	23-8	17/03/89	1424-1623	2744
	GN	23-8,9	23/03/89	0915-1930	3349

Table 4. Codings for British Columbia herring sampling data.

A. Gear		B. Source	
19	Gillnet	0	Roe fishery
29	Seine	1	Bait fishery
20	Salmon seine	2	Research - inshore
21	Other seine	3	Research - offshore
70	Beach seine	4	Other
50	Other trawl	5	Pre-fishery charter
59	Herring trawl	6	Food fishery
01	Other		
C. Preservation		**D. Sex**	
0	Frozen	1	Male
1	Fresh	2	Female
2	Salted	3	Immature or Unknown
3	Other		
4	Brined		

Table 5. Week numbers for Pacific herring data for the 1988-89 season.

WEEK NUMBER	DURATION	WEEK NUMBER	DURATION
1	JUL. 1 - JUL. 2	27	DEC. 25 - DEC. 31
2	JUL. 3 - JUL. 9	28	JAN. 1 - JAN. 7
3	JUL. 10 - JUL. 16	29	JAN. 8 - JAN. 14
4	JUL. 17 - JUL. 23	30	JAN. 15 - JAN. 21
5	JUL. 24 - JUL. 30	31	JAN. 22 - JAN. 28
6	JUL. 31 - AUG. 6	32	JAN. 29 - FEB. 4
7	AUG. 7 - AUG. 13	33	FEB. 5 - FEB. 11
8	AUG. 14 - AUG. 20	34	FEB. 12 - FEB. 18
9	AUG. 21 - AUG. 27	35	FEB. 19 - FEB. 25
10	AUG. 28 - SEPT. 3	36	FEB. 26 - MAR. 4
11	SEPT. 4 - SEPT. 10	37	MAR. 5 - MAR. 11
12	SEPT. 11 - SEPT. 17	38	MAR. 12 - MAR. 18
13	SEPT. 18 - SEPT. 24	39	MAR. 19 - MAR. 25
14	SEPT. 25 - OCT. 1	40	MAR. 26 - APR. 1
15	OCT. 2 - OCT. 8	41	APR. 2 - APR. 8
16	OCT. 9 - OCT. 15	42	APR. 9 - APR. 15
17	OCT. 16 - OCT. 22	43	APR. 16 - APR. 22
18	OCT. 23 - OCT. 29	44	APR. 23 - APR. 29
19	OCT. 30 - NOV. 5	45	APR. 30 - MAY 6
20	NOV. 6 - NOV. 12	46	MAY 7 - MAY 13
21	NOV. 13 - NOV. 19	47	MAY 14 - MAY 20
22	NOV. 20 - NOV. 26	48	MAY 21 - MAY 27
23	NOV. 28 - DEC. 3	49	MAY 28 - JUNE 3
24	DEC. 4 - DEC. 10	50	JUNE 4 - JUNE 10
25	DEC. 11 - DEC. 17	51	JUNE 11 - JUNE 17
26	DEC. 18 - DEC. 24	52	JUNE 18 - JUNE 24
		53	JUNE 25 - JUNE 30

Table 6. 1988-89 sample information by area and location.

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
2W	5	INSKIP CHANNEL	151	89	3	22	29	5	0	100	97
2W	5	INSKIP CHANNEL	208	89	3	21	29	5	0	100	92
2W	5	INSKIP CHANNEL	210	89	3	16	29	5	0	100	97
2W	5	INSKIP CHANNEL	215	89	3	17	29	5	0	100	96
2W	5	INSKIP CHANNEL	363	89	4	6	29	5	0	100	95
2W	6	LOUSCOONE INLET	158	89	3	22	29	5	0	100	96
2W	6	LOUSCOONE INLET	167	89	3	9	29	5	0	100	98
2W	6	LOUSCOONE INLET	194	89	3	22	29	5	0	100	96
2W	6	LOUSCOONE INLET	201	89	3	18	29	5	0	100	94
2W	6	LOUSCOONE INLET	205	89	3	18	29	5	0	100	98
2W	6	LOUSCOONE INLET	206	89	3	24	29	5	0	100	97
2W	6	LOUSCOONE INLET	214	89	3	24	29	5	0	100	96
2W	6	LOUSCOONE INLET	259	89	3	28	29	0	0	100	91
2W	6	LOUSCOONE INLET	265	89	3	28	29	0	0	89	69
2W	6	LOUSCOONE INLET	267	89	3	28	29	0	0	100	94
2W	6	LOUSCOONE INLET	272	89	3	28	29	0	0	100	85
2W	6	LOUSCOONE INLET	315	89	3	28	29	0	0	100	84
2W	6	LOUSCOONE INLET	338	89	4	7	29	5	0	100	96
2W	2	PORT LOUIS	164	89	3	12	29	5	0	100	93
2W	2	PORT LOUIS	204	89	3	18	29	5	0	100	95
2W	3	RENNELL SOUND	212	89	3	19	29	5	0	100	96
2W	3	SEAL INLET	203	89	3	13	29	5	0	100	89
2W	3	SEAL INLET	213	89	3	13	29	5	0	100	92
2W	3	SHIELDS BAY	202	89	3	14	29	5	0	100	94
2W	3	SHIELDS BAY	209	89	3	15	29	5	0	100	96
2W	6	SKINDASKUN ISLAND	296	89	3	28	29	0	0	100	73
2W	3	TARTU INLET	337	89	4	2	29	5	0	100	96
2W	6	TUGA POINT	262	89	3	28	29	0	0	100	96
2W	6	TUGA POINT	297	89	3	28	29	0	0	100	62
2W	6	TUGA POINT	302	89	3	28	29	0	0	100	70
2W	6	TUGA POINT	317	89	3	28	29	0	0	100	87
2E	24	ATLI INLET	154	89	3	21	29	5	0	100	97
2E	21	BURNABY STRAIT	156	89	3	21	29	5	0	100	96
2E	21	BURNABY STRAIT	157	89	3	22	29	5	0	100	91
2E	21	BURNABY STRAIT	161	89	3	22	29	5	0	100	97
2E	21	BURNABY STRAIT	162	89	3	20	29	5	0	100	96
2E	21	BURNABY STRAIT	166	89	3	16	29	5	0	100	93
2E	21	BURNABY STRAIT	169	89	3	24	29	5	0	100	90
2E	21	BURNABY STRAIT	207	89	3	19	29	5	0	100	97
2E	21	BURNABY STRAIT	232	89	3	31	29	5	0	100	91
2E	21	BURNABY STRAIT	233	89	3	27	29	5	0	100	97
2E	25	HUSTON INLET	153	89	3	13	29	5	0	100	94
2E	25	HUSTON INLET	193	89	3	14	29	5	0	100	93
2E	25	HUSTON INLET	211	89	3	15	29	5	0	100	95

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
2E	21	HUXLEY ISLAND	170	89	3	16	29	5	0	100	95
2E	21	JUAN PEREZ SOUND	155	89	3	15	29	5	0	100	95
2E	21	JUAN PEREZ SOUND	160	89	3	7	29	5	0	100	93
2E	21	JUAN PEREZ SOUND	163	89	3	10	29	5	0	100	98
2E	21	JUAN PEREZ SOUND	165	89	3	12	29	5	0	100	94
2E	24	SELWYN INLET	234	89	4	4	29	5	0	100	89
2E	21	SKAAT HARBOUR	159	89	3	22	29	5	0	100	91
2E	25	SKINCUTTLE INLET	152	89	3	8	29	5	0	100	99
2E	25	SKINCUTTLE INLET	168	89	3	13	29	5	0	100	97
3	33	BIRNIE ISLAND	288	89	3	16	29	5	0	100	92
3	33	BIRNIE ISLAND	301	89	3	16	29	5	0	100	96
3	33	CUNNINGHAM PASS	231	89	3	21	29	5	0	100	90
3	33	CUNNINGHAM PASS	244	89	3	20	29	5	0	100	94
3	33	FINLAYSON ISLAND E.	230	89	4	2	19	0	0	100	69
3	33	GRASSY POINT	241	89	3	28	29	5	0	100	86
3	33	STUMAUN BAY	239	89	3	20	29	5	0	100	97
3	33	STUMAUN BAY	284	89	3	21	29	5	0	100	91
4	43	ARTHUR PASSAGE	243	89	3	17	29	5	0	99	77
4	42	MIST ISLAND	217	89	3	23	29	5	0	100	94
4	42	PEARL HARBOUR	218	89	3	22	29	5	0	100	94
4	42	PEARL HARBOUR	222	89	3	28	29	5	0	100	93
4	42	PEARL HARBOUR	225	89	3	28	29	5	0	100	93
4	42	PEARL HARBOUR	235	89	3	21	29	5	0	100	93
4	42	PEARL HARBOUR	281	89	3	25	29	5	0	100	99
4	42	PEARL HARBOUR	282	89	3	23	29	5	0	100	89
4	42	SHATTOCK POINT	228	89	3	26	29	5	0	100	89
4	42	SHATTOCK POINT	290	89	3	25	29	5	0	100	93
4	42	SIMPSON POINT	224	89	3	24	29	5	0	100	94
4	42	SLIPPERY ROCK	260	89	4	4	19	0	0	100	82
4	42	TREE BLUFF	256	89	4	3	19	0	0	83	58
4	42	TREE BLUFF	269	89	4	4	19	0	0	80	53
4	42	TREE BLUFF	278	89	4	2	19	0	0	100	68
4	42	TRENHAM POINT	253	89	4	2	19	0	0	100	72
4	42	TRENHAM POINT	270	89	4	2	19	0	0	100	74
5	52	ABSALOM ISLAND	247	89	4	2	29	0	0	100	81
5	52	ABSALOM ISLAND	289	89	3	29	29	5	0	98	92
5	52	COQUITLAM ISLAND	283	89	3	30	29	5	0	99	92
5	52	GURD ISLAND	286	89	3	19	29	5	0	100	91
5	52	GURD POINT	242	89	3	23	29	5	0	99	92
5	52	KITKATLA CREEK	273	89	4	2	29	0	0	100	89
5	52	KITKATLA INLET	250	89	4	2	29	0	0	100	83
5	52	KITKATLA IN. N SIDE	226	89	4	1	29	5	0	99	89
5	52	NESS ISLANDS	252	89	4	2	29	0	0	100	70
5	52	NESS ISLANDS	264	89	3	20	29	5	0	99	89

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
5	52	ROBERT ISLAND	287	89	3	29	29	5	0	99	94
5	52	SNASS POINT	216	89	4	4	29	5	0	100	94
5	52	SNASS POINT	219	89	4	6	29	5	0	100	92
5	52	SNASS POINT	220	89	4	6	29	5	0	100	84
5	52	SNASS POINT	255	89	4	3	29	0	0	100	89
5	52	SNASS POINT	257	89	4	3	29	0	0	100	90
5	52	SNASS POINT	266	89	4	2	29	0	0	100	81
5	52	SNASS POINT	268	89	4	2	29	0	0	100	78
5	52	SNASS POINT	274	89	4	2	29	0	0	100	70
5	52	SNASS POINT	277	89	4	3	29	0	0	100	58
5	52	SNASS POINT	291	89	4	4	29	5	0	100	91
5	52	SNASS POINT	298	89	4	1	29	5	0	100	95
5	52	VISCOUNT POINT	285	89	4	4	1	4	0	100	97
5	52	WILCOX GROUP	258	89	3	31	29	5	0	98	78
6	67	JAMIESON POINT	179	89	3	23	29	5	0	100	90
6	67	KITASU BAY	229	89	3	24	29	0	0	100	87
6	67	KITASU BAY	249	89	3	24	29	0	0	100	83
6	67	KITASU BAY	271	89	3	24	29	0	0	100	94
6	67	KITASU BAY	276	89	3	24	29	0	0	100	86
6	67	KITASU BAY	280	89	3	24	29	0	0	100	80
6	67	KITASU BAY	316	89	3	31	19	0	0	100	69
6	67	LAREDO INLET	191	89	3	24	29	5	0	99	91
6	67	LAREDO INLET	292	89	3	24	29	0	0	100	84
6	67	MARVIN ISLANDS	182	89	3	4	29	5	0	100	90
6	67	MARVIN ISLANDS	183	89	3	8	29	5	0	100	92
6	67	MARVIN ISLANDS	185	89	3	20	29	5	0	100	94
6	67	MARVIN ISLANDS	187	89	3	6	29	5	0	100	89
6	67	MARVIN ISLANDS	200	89	3	9	29	5	0	100	92
6	67	MARVIN ISLANDS	275	89	3	30	19	0	0	100	77
6	67	MEYERS PASSAGE	188	89	3	10	29	5	0	100	91
6	67	MEYERS PASSAGE	189	89	3	15	29	5	0	100	87
6	67	MEYERS PASSAGE	190	89	3	3	29	5	0	99	91
6	67	MEYERS PASSAGE	196	89	3	8	29	5	0	100	90
6	67	MEYERS PASSAGE	263	89	3	24	29	0	0	100	91
6	67	MEYERS PASSAGE	299	89	3	24	29	0	0	100	93
6	67	PARSONS ANCHORAGE	175	89	3	23	29	5	0	100	98
6	67	PARSONS ANCHORAGE	192	89	3	20	29	5	0	98	86
6	67	PARSONS ANCHORAGE	199	89	3	24	29	5	0	100	95
6	67	PARSONS ANCHORAGE	223	89	3	24	29	0	0	100	80
6	67	PARSONS ANCHORAGE	248	89	3	24	29	0	0	100	91
6	67	PARSONS ANCHORAGE	261	89	3	30	19	0	0	100	74
6	67	THISTLE PASSAGE	177	89	3	16	29	5	0	100	93
6	67	THISTLE PASSAGE	186	89	3	20	29	5	0	98	89
7	72	BERRY INLET	130	89	3	9	29	5	0	100	93

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
7	74	BODDY PASSAGE	141	89	3	8	29	5	0	99	90
7	75	CULTUS SOUND	308	89	4	4	19	0	0	100	62
7	72	DON PENINSULA	142	89	3	16	29	5	0	100	90
7	74	DUNDIVAN INLET	145	89	3	3	29	5	0	100	89
7	77	EAST HIGGINS PASS	131	89	3	20	29	5	0	100	95
7	77	EAST HIGGINS PASS	137	89	3	20	29	5	0	100	94
7	77	EAST HIGGINS PASS	171	89	3	14	29	5	0	100	94
7	77	EAST HIGGINS PASS	172	89	3	14	29	5	0	99	93
7	77	EAST HIGGINS PASS	173	89	3	22	29	5	0	100	98
7	77	EAST HIGGINS PASS	174	89	3	17	29	5	0	99	94
7	77	EAST HIGGINS PASS	180	89	3	14	29	5	0	98	85
7	77	EAST HIGGINS PASS	195	89	3	10	29	5	0	100	86
7	77	EAST HIGGINS PASS	246	89	3	31	19	0	0	100	80
7	77	EAST HIGGINS PASS	251	89	3	25	29	0	0	100	91
7	77	EAST HIGGINS PASS	254	89	3	25	29	0	0	100	91
7	77	EAST HIGGINS PASS	279	89	3	25	29	0	0	100	87
7	77	EAST HIGGINS PASS	310	89	3	31	19	0	0	100	68
7	77	EAST HIGGINS PASS	311	89	4	1	19	0	0	100	51
7	77	EAST HIGGINS PASS	318	89	4	4	19	0	0	100	46
7	77	EAST HIGGINS PASS	359	89	3	24	1	4	0	100	97
7	77	EAST HIGGINS PASS	360	89	3	30	19	0	0	100	46
7	78	FINLAYSON CHANNEL	176	89	3	17	29	5	0	100	91
7	78	FINLAYSON CHANNEL	184	89	3	18	29	5	0	94	49
7	76	GOODLAD BAY	136	89	3	13	29	5	0	100	92
7	73	LAMA PASSAGE	181	89	3	13	29	5	0	99	77
7	74	LITTLE THOMPSON BAY	122	89	3	22	29	5	0	100	92
7	72	NEEKAS INLET	123	89	3	9	29	5	0	100	86
7	74	NORMAN MORRISON BAY	126	89	3	2	29	5	0	100	92
7	72	PORT BLACKNEY	198	89	3	11	29	5	0	100	95
7	72	POWELL ANCHORAGE	125	89	3	16	29	5	0	100	88
7	74	STRYKER BAY	178	89	3	12	29	5	0	100	91
7	74	STRYKER BAY	313	89	4	3	19	0	0	100	60
7	74	THOMPSON BAY	221	89	3	26	29	5	0	98	91
7	74	THOMPSON BAY	312	89	3	30	19	0	0	100	77
7	74	WASKESIU PASS	128	89	3	4	29	5	0	99	94
7	74	WASKESIU PASS	139	89	3	26	29	5	0	100	85
7	74	WASKESIU PASS	140	89	3	26	29	5	0	100	85
7	74	WASKESIU PASS	197	89	3	11	29	5	0	94	88
7	74	WASKESIU PASS	227	89	3	26	29	5	0	100	90
8	85	FAIRMILE PASSAGE	343	89	4	6	29	5	0	100	96
8	85	FAIRMILE PASSAGE	362	89	4	6	29	5	0	100	94
8	85	KWAKSHUA CHANNEL	132	89	3	6	29	5	0	100	95
8	85	KWAKSHUA CHANNEL	135	89	3	10	29	5	0	100	95
8	85	KWAKSHUA CHANNEL	146	89	3	5	29	5	0	100	89

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
8	85	KWAKSHUA CHANNEL	149	89	3	2	29	5	0	100	91
9	92	GOOSE BAY	351	89	4	5	29	5	0	100	87
10	102	TAKUSH HARBOUR	240	89	4	2	29	5	0	100	86
10	102	TAKUSH HARBOUR	354	89	4	3	29	5	0	100	84
11	112	SEYMOUR INLET	237	89	4	1	29	5	0	100	84
12	125	BOND SOUND	344	89	3	25	29	5	0	100	91
12	123	BOUGHEY BAY	350	89	3	22	29	5	0	99	83
12	123	BOUGHEY BAY	352	89	3	22	29	5	0	100	0
12	123	CLIO CHANNEL	353	89	3	23	29	5	0	100	91
12	125	CRAMER PASSAGE	346	89	3	26	29	5	0	99	88
12	127	GLACIER BAY +	236	89	3	25	29	5	0	100	88
12	127	GLACIER BAY +	345	89	3	24	29	5	0	100	93
12	124	GRAPPLER SOUND	355	89	3	28	29	5	0	100	92
12	126	SIMOOM SOUND	358	89	3	27	29	5	0	100	52
12	125	WAHKANA BAY	238	89	3	26	29	5	0	100	94
12	127	WAHSHIHLAS BAY	356	89	3	24	29	5	0	100	90
13	136	HOSKYN CHANNEL	39	89	3	2	29	5	0	100	93
13	135	REBECCA SPIT	121	89	3	14	29	5	0	100	92
14	142	BAYNES SOUND	6	89	3	6	29	5	0	100	89
14	142	BAYNES SOUND	18	89	2	24	29	5	0	100	88
14	142	CAPE LAZO	331	89	3	15	19	0	0	100	64
14	142	CHROME ISLAND	3	89	3	5	29	5	0	100	95
14	142	CHROME ISLAND	25	89	3	2	29	5	0	99	83
14	142	CHROME ISLAND	51	89	3	9	19	0	0	100	78
14	142	COMOX BAR	40	89	3	6	29	5	0	100	87
14	142	COMOX HARBOUR	45	89	3	6	29	5	0	100	87
14	142	COMOX HARBOUR	67	89	3	6	29	0	0	100	79
14	142	COMOX HARBOUR	76	89	3	6	29	0	0	100	88
14	142	DEEP BAY	32	89	3	2	29	5	0	99	86
14	142	DEEP BAY	37	89	2	27	29	5	0	100	83
14	142	DENMAN ISLAND (E.)	71	89	3	7	19	0	0	100	74
14	142	DENMAN ISLAND (E.)	73	89	3	7	19	0	0	100	68
14	142	DENMAN ISLAND (E.)	79	89	3	7	19	0	0	100	79
14	142	DENMAN ISLAND (W.)	59	89	3	6	29	0	0	100	73
14	142	DENMAN ISLAND (W.)	66	89	3	6	29	0	0	100	74
14	142	FILLONGLEY PARK	19	89	3	2	29	5	0	100	91
14	142	FILLONGLEY PARK	35	89	3	3	29	5	0	100	88
14	143	FRENCH CREEK	77	89	3	15	19	0	0	100	74
14	142	GARTLEY POINT	20	89	3	5	29	5	0	100	87
14	142	GARTLEY POINT	68	89	3	6	29	0	0	100	76
14	142	GARTLEY POINT	70	89	3	6	29	0	0	100	84
14	142	KOMAS BLUFF	11	89	3	3	29	5	0	100	88
14	142	KOMAS BLUFF	27	89	3	2	29	5	0	100	88
14	142	KOMAS BLUFF	65	89	3	7	19	0	0	100	78

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
14	142	KOMAS BLUFF	323	89	3	9	19	0	0	100	88
14	142	LAMBERT CHANNEL	30	89	2	28	29	5	0	100	85
14	142	LAMBERT CHANNEL	48	89	3	13	29	5	0	100	90
14	143	NORTHWEST BAY	18	88	12	15	29	2	0	100	93
14	142	PHIPPS POINT	7	89	3	8	29	5	0	100	91
14	142	SANDY ISLAND	12	89	3	4	29	5	0	100	89
14	142	SANDY ISLAND	53	89	3	6	29	0	0	100	71
14	142	SANDY ISLAND	56	89	3	6	29	0	0	100	74
14	142	SANDY ISLAND	324	89	3	7	29	0	0	100	79
14	142	SANDY ISLAND	364	89	3	7	19	0	0	100	78
14	142	SEAL ISLETS	21	89	3	5	29	5	0	100	95
14	142	SHINGLE SPIT	46	89	3	12	29	5	0	100	87
14	142	SHINGLE SPIT	61	89	3	9	19	0	0	100	72
14	142	TRIBUNE BAY	75	89	3	15	19	0	0	100	70
14	142	UNION BAY	52	89	3	6	29	0	0	100	79
14	142	UNION BAY	55	89	3	6	29	0	0	100	86
15	152	ATREVIDA REEF	50	89	2	28	29	5	0	100	84
15	152	DINNER ROCK	24	89	3	7	29	5	0	100	82
15	152	EMMONDS BEACH	14	89	3	8	29	5	0	100	89
15	152	GRIEF POINT	22	89	3	9	29	5	0	100	86
15	152	GRIEF POINT	33	89	3	9	29	5	0	100	84
15	152	POWELL RIVER MILL	13	89	3	9	29	5	0	100	88
15	152	POWELL RIVER MILL	15	89	3	6	29	5	0	100	91
15	152	POWELL RIVER MILL	23	89	3	5	29	5	0	100	85
15	152	POWELL RIVER MILL	36	89	3	1	29	5	0	100	82
15	152	POWELL RIVER MILL	38	89	3	4	29	5	0	100	84
15	152	POWELL RIVER MILL	129	89	3	13	29	5	0	100	91
15	152	SCUTTLE BAY	17	89	3	3	29	5	0	100	90
15	152	SCUTTLE BAY	29	89	3	7	29	5	0	100	91
15	152	SCUTTLE BAY	31	89	3	6	29	5	0	100	89
15	152	SCUTTLE BAY	42	89	3	9	29	5	0	100	91
15	152	SLIAMMON VILLAGE	16	89	2	26	29	5	0	100	89
15	152	SLIAMMON VILLAGE	26	89	3	2	29	5	0	100	85
15	152	SLIAMMON VILLAGE	28	89	2	27	29	5	0	100	84
15	152	SLIAMMON VILLAGE	34	89	3	8	29	5	0	100	92
15	152	SLIAMMON VILLAGE	334	89	3	2	29	5	0	99	86
15	152	WESTVIEW	143	89	3	12	29	5	0	100	80
15	152	WESTVIEW	150	89	3	12	29	5	0	100	84
16	162	WILLINGDON BEACH +	124	89	3	13	29	5	0	100	90
16	162	WILLINGDON BEACH +	133	89	3	16	29	5	0	100	83
17	173	BLACKBERRY POINT	6	88	11	8	29	6	0	100	81
17	173	BLACKBERRY POINT	17	88	11	8	29	6	0	100	86
17	173	DANGER REEFS	13	88	11	30	29	6	0	100	76
17	173	GABRIOLA IS.	20	88	11	7	29	2	0	100	66

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
17	173	GABRIOLA IS.	335	89	1	10	29	2	0	100	93
17	172	MAUDE ISLAND	43	89	3	12	29	5	0	100	85
17	173	MONTAGUE HARBOUR	1	89	3	5	29	5	0	100	93
17	173	NORTHUMBERLAND CH.	2	89	3	4	29	5	0	100	88
17	173	NORTHUMBERLAND CH.	4	89	3	1	29	5	0	100	91
17	173	NORTHUMBERLAND CH.	5	89	2	28	29	5	0	100	92
17	173	NORTHUMBERLAND CH.	8	89	3	3	29	5	0	100	92
17	173	NORTHUMBERLAND CH.	28	88	12	15	29	2	0	100	92
17	173	NORTHUMBERLAND CH.	49	89	3	11	29	5	0	100	92
17	173	PYLADES CHANNEL	41	89	3	10	29	5	0	100	87
17	173	PYLADES CHANNEL	47	89	3	11	29	5	0	100	87
17	173	RAGGED ISLETS	12	88	11	15	29	6	0	100	83
17	173	ROUND ISLAND	58	89	3	11	29	0	0	100	72
17	173	ROUND ISLAND	72	89	3	11	29	0	0	100	84
17	173	RUXTON PASS	24	88	11	30	29	6	0	100	84
17	173	STUART CHANNEL	4	88	12	14	29	2	0	100	82
17	173	STUART CHANNEL	16	88	12	12	29	6	0	99	83
17	173	STUART CHANNEL	44	89	3	11	29	5	0	100	82
17	173	STUART CHANNEL	54	89	3	11	29	0	0	100	73
17	173	STUART CHANNEL	60	89	3	11	29	0	0	100	80
17	173	STUART CHANNEL	74	89	3	12	29	0	0	100	82
17	173	STUART CHANNEL	322	89	3	11	29	0	0	100	84
17	173	STUART CHANNEL	325	89	3	11	29	0	0	100	83
17	173	TRINCOMALI CHANNEL	10	89	3	2	29	5	0	100	93
17	173	YELLOW POINT	8	88	11	30	29	6	0	100	82
17	173	YELLOW POINT	10	88	11	7	29	6	0	100	88
17	173	YELLOW POINT	11	88	11	7	29	6	0	100	88
17	173	YELLOW POINT	22	88	11	14	29	6	0	100	48
17	173	YELLOW POINT	23	88	12	14	29	6	0	100	84
17	173	YELLOW POINT	29	88	11	16	29	6	0	100	79
17	173	YELLOW PT. (NORTH)	25	88	12	1	29	6	0	100	87
17	173	YELLOW PT. (NORTH)	80	89	3	11	29	0	0	100	87
18	181	CAPTAIN PASSAGE	9	89	3	3	29	5	0	100	91
18	182	TUMBO CHANNEL	15	88	10	12	29	2	0	100	95
21	219	SWIFTSURE BANK	14	88	8	11	59	3	0	100	82
23	232	BROKEN GROUP	84	89	3	18	29	5	0	100	85
23	232	BROKEN GROUP	94	89	3	8	29	5	0	100	81
23	232	BRYANT ISLANDS	93	89	3	16	29	5	0	100	88
23	232	BRYANT ISLANDS	104	89	3	16	29	5	0	100	87
23	232	CAPSTAN ISLAND	90	89	3	18	29	5	0	100	94
23	232	CAPSTAN ISLAND	97	89	3	12	29	5	0	100	90
23	232	CAPSTAN ISLAND	105	89	3	18	29	5	0	100	89
23	232	CAPSTAN ISLAND	138	89	3	18	29	5	0	100	87
23	232	CAPSTAN ISLAND	293	89	3	17	29	0	0	100	69

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
23	232	CAPSTAN ISLAND	309	89	3	17	29	0	0	100	87
23	232	CAPSTAN ISLAND	314	89	3	17	29	0	0	100	85
23	232	CHROW ISLANDS	365	89	2	10	29	2	0	100	90
23	232	COASTER CHANNEL	348	89	2	8	29	2	0	100	88
23	232	DAVID CHANNEL	64	89	3	13	29	0	0	100	78
23	239	EDGE 100 FATHOM +	2	88	8	6	59	3	0	26	14
23	239	EDGE 100 FATHOM +	21	88	8	7	59	3	0	100	51
23	232	EQUIS BEACH	305	89	3	23	19	0	0	100	57
23	232	EQUIS BEACH	307	89	3	23	19	0	0	100	80
23	232	FORBES ISLAND	112	89	3	12	29	5	0	100	90
23	232	FORBES ISLAND	357	89	1	22	59	2	0	100	61
23	239	FORTY MILE BANK	3	88	8	12	59	3	0	100	75
23	239	FORTY MILE BANK	5	88	8	18	59	3	0	100	82
23	239	FORTY MILE BANK	7	88	8	17	59	3	0	100	78
23	239	FORTY MILE BANK	9	88	8	18	59	3	0	100	48
23	239	FORTY MILE BANK	26	88	8	17	59	3	0	100	64
23	239	FORTY MILE BANK	30	88	8	16	59	3	0	100	55
23	239	FORTY MILE BANK	333	89	1	21	59	3	0	100	84
23	232	HAND ISLAND	62	89	3	18	29	5	0	100	90
23	232	HAND ISLAND	63	89	3	18	29	5	0	100	89
23	232	HAND ISLAND	69	89	3	13	29	0	0	100	79
23	232	HAND ISLAND	87	89	3	18	29	5	0	100	88
23	232	HAND ISLAND	91	89	3	18	29	5	0	100	91
23	232	HAND ISLAND	100	89	3	18	29	5	0	100	79
23	232	HAND ISLAND	101	89	3	18	29	5	0	100	86
23	232	HAND ISLAND	102	89	3	18	29	5	0	100	87
23	232	HAND ISLAND	103	89	3	19	29	5	0	100	91
23	232	HAND ISLAND	107	89	3	18	29	5	0	100	84
23	232	HAND ISLAND	134	89	3	12	29	5	0	100	89
23	232	HAND ISLAND	294	89	3	23	19	0	0	100	63
23	232	HAND ISLAND	319	89	3	23	19	0	0	100	64
23	233	IMPERIAL EAGLE CH.	341	89	2	7	29	2	0	100	92
23	232	LYALL POINT	82	89	3	13	29	5	0	100	91
23	232	LYALL POINT	98	89	3	9	29	5	0	100	87
23	232	LYALL POINT	109	89	2	28	29	5	0	100	84
23	232	LYALL POINT	147	89	2	25	29	5	0	100	97
23	232	LYALL POINT	329	89	3	13	29	0	0	100	78
23	232	MAYNE BAY	349	89	2	9	29	2	0	100	89
23	232	NEWCOMBE CHANNEL	86	89	3	7	29	5	0	100	89
23	232	PEACOCK CHANNEL	85	89	3	17	29	5	0	100	81
23	232	PINKERTON ISLAND	303	89	3	17	29	0	0	100	90
23	232	PINKERTON ISLAND	306	89	3	17	29	0	0	100	84
23	232	PINKERTON ISLAND	320	89	3	23	19	0	0	100	61
23	232	PINKERTON ISLAND	321	89	3	17	29	0	0	100	79

Table 6 (cont'd)

Area	Section	Location	Sample Number	Year	Mon	Day	Gear	Source	Pre	Fish Sampled	Fish Aged
23	232	PRIDEAUX ISLAND	295	89	3	17	29	0	0	100	88
23	232	SECHART CHANNEL	57	89	3	13	29	0	0	100	88
23	232	SECHART CHANNEL	78	89	3	13	29	0	0	100	90
23	232	SECHART CHANNEL	327	89	3	13	29	0	0	100	86
23	232	SECHART CHANNEL	332	89	3	13	29	0	0	100	35
23	232	SHEARS ISLANDS	89	89	3	5	29	5	0	100	91
23	239	SOUTHWEST CORNER +	19	86	8	10	59	3	0	100	74
23	239	SOUTHWEST CORNER +	336	89	1	20	59	3	0	100	73
23	239	SOUTHWEST CORNER +	336	89	1	20	59	3	0	100	73
23	232	SPILLING ISLET	115	89	3	10	29	5	0	100	91
23	232	ST. INES ISLAND	111	89	3	12	29	5	0	100	89
23	239	STEEP EDGE +	1	88	8	5	59	3	0	40	37
23	239	STEEP EDGE +	27	88	8	10	59	3	0	100	88
23	232	STOPPER ISLANDS	81	89	3	3	29	5	0	100	93
23	232	STOPPER ISLANDS	92	89	3	5	29	5	0	100	93
23	233	SWALE ROCK	144	89	2	27	29	5	0	100	87
23	232	TOQUART BAY	117	89	3	3	29	5	0	100	92
23	232	TURRET ISLAND	304	89	3	23	19	0	0	100	57
24	244	MILLAR CHANNEL	361	89	2	26	29	5	0	100	93
24	243	STARLING POINT	113	89	3	12	29	5	0	100	93
24	243	SYDNEY INLET	106	89	3	13	29	5	0	100	96
24	243	SYDNEY INLET	120	89	3	13	29	5	0	99	91
24	243	SYDNEY INLET	127	89	3	7	29	5	0	100	95
24	243	SYDNEY INLET	148	89	3	9	29	5	0	100	95
24	243	SYDNEY INLET	245	89	3	13	29	5	0	100	90
24	243	SYDNEY INLET	300	89	3	13	29	5	0	100	89
24	243	SYDNEY INLET	339	89	3	14	29	5	0	100	97
24	243	SYDNEY INLET	342	89	3	4	29	5	0	100	88
24	243	SYDNEY INLET	347	89	2	28	29	5	0	100	96
25	253	CENTRE ISLAND	88	89	2	27	29	5	0	100	97
25	253	ESPERANZA INLET	330	89	2	28	29	5	0	100	98
25	252	FRIENDLY COVE	99	89	3	5	29	5	0	100	88
25	252	MCKAY PASSAGE	96	89	3	4	29	5	0	100	98
25	253	ROSA HARBOUR	116	89	3	1	29	5	0	100	86
25	253	ROSA HARBOUR	326	89	2	27	29	5	0	100	90
25	253	ROSA HARBOUR	328	89	3	2	29	5	0	100	93
25	253	ROSA HARBOUR	340	89	3	3	29	5	0	100	96
26	261	AMAI (DEEP) INLET	83	89	2	28	29	5	0	100	91
27	273	FORWARD INLET	95	89	2	25	29	5	0	100	92
27	273	FORWARD INLET	108	89	3	2	29	5	0	100	89
27	272	KLASKISH INLET	110	89	3	5	29	5	0	100	95
27	272	KLASKISH INLET	114	89	3	4	29	5	0	100	97
27	272	KLASKISH INLET	119	89	3	5	29	5	0	97	94

TABLE 7 TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 219 - OFFSHORE AREA 21

SAMPLE NUMBERS: 14

SOURCE: RESEARCH - OFFSHORE

GEAR: HERRING TRAWL

DATE: AUG 11/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	16	46	8	10	1	0	0	0	18	100
% AT AGE	0.00	1.22	19.51	56.10	9.76	12.20	1.22	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	141.00	183.63	190.91	203.13	208.70	202.00	0.00	0.00	0.00	185.11	191.07
- STD. DEV.	0.00	0.00	11.12	10.02	7.92	6.11	0.00	0.00	0.00	0.00	18.73	14.75
WEIGHT - MEAN(gm)	0.00	38.00	77.94	96.39	115.50	126.10	121.00	0.00	0.00	0.00	90.67	96.57
- STD. DEV.	0.00	0.00	13.61	15.97	16.81	14.04	0.00	0.00	0.00	0.00	24.79	22.53

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	11	89	0	0	0	0	0	0	0
% AT STAGE	11.00	89.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	20	0	0	20
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.88	0.00	0.00	0.88

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	19	20	61	100
%	19.00	20.00	61.00	100.00
MEAN WEIGHT	111.11	107.45	88.48	96.57
% SAMP. WT.	21.86	22.25	55.89	100.00

TABLE 7 (CONT'D) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS

SAMPLE NUMBERS: 357

SOURCE: RESEARCH - INSHORE

GEAR: HERRING TRAWL

DATE: JAN 22/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	7	38	6	4	4	2	0	0	0	0	39	100
% AT AGE	11.48	62.30	9.84	6.56	6.56	3.28	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	101.14	150.89	186.00	198.00	204.75	219.00	0.00	0.00	0.00	0.00	132.82	147.87
- STD. DEV.	7.15	11.89	13.73	4.90	13.60	1.41	0.00	0.00	0.00	0.00	42.21	37.75
WEIGHT - MEAN(gm)	12.14	44.16	91.33	106.00	120.75	148.50	0.00	0.00	0.00	0.00	40.59	50.98
- STD. DEV.	2.12	12.87	18.06	4.08	23.73	13.44	0.00	0.00	0.00	0.00	41.86	39.34

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	24	28	20	28	0	0	0	0	0
% AT STAGE	24.00	28.00	20.00	28.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	45	0	0	45
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	4.54	0.00	0.00	4.54

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	22	45	33	100
%	22.00	45.00	33.00	100.00
MEAN WEIGHT	83.23	60.20	16.91	50.98
% SAMP. WT.	35.92	53.14	10.95	100.00

TABLE 7 (CONT'D) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 239 - OFFSHORE AREA 23

SAMPLE NUMBERS: 5, 26, 9, 27, 7,336, 3, 21, 2,333, 19, 1, 30

SOURCE: RESEARCH - OFFSHORE

GEAR: HERRING TRAWL

DATE: AUG 5/88 - JAN 21/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	68	94	88	373	81	80	29	8	2	0	343	1166
% AT AGE	8.26	11.42	10.69	45.32	9.84	9.72	3.52	0.97	0.24	0.00	0.00	100.00
LENGTH - MEAN(mm)	104.75	136.26	183.53	197.26	209.83	217.66	224.28	234.25	235.50	0.00	191.27	187.41
- STD. DEV.	5.56	6.32	9.54	9.87	9.53	10.35	11.08	12.06	0.71	0.00	33.15	34.35
WEIGHT - MEAN(gm)	13.57	34.40	89.63	110.67	129.63	145.44	160.45	184.00	169.50	0.00	107.59	101.91
- STD. DEV.	2.41	4.78	14.70	18.92	20.62	22.18	22.64	30.45	13.44	0.00	44.37	44.53

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	173	450	429	40	57	0	9	5	3
% AT STAGE	14.84	38.59	36.79	3.43	4.89	0.00	0.77	0.43	0.26

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	478	8	6	492
%	97.15	1.63	1.22	100.00
% SAMPLE WEIGHT	1.85	0.28	0.01	2.14

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	414	492	260	1166
%	35.51	42.20	22.30	100.00
MEAN WEIGHT	120.03	119.59	39.60	101.91
% SAMP. WT.	41.82	49.52	8.66	100.00

TABLE 8 SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 143 - QUALICUM

SAMPLE NUMBERS: 18

SOURCE: RESEARCH - INSHORE

GEAR: HERRING SEINE

DATE: DEC 15/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	34	18	31	7	3	0	0	0	0	7	100
% AT AGE	0.00	36.56	19.35	33.33	7.53	3.23	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	157.18	182.11	196.87	206.14	219.67	0.00	0.00	0.00	0.00	185.71	181.27
- STD. DEV.	0.00	13.01	14.07	10.65	8.78	9.24	0.00	0.00	0.00	0.00	16.67	22.66
WEIGHT - MEAN(gm)	0.00	55.00	84.94	108.58	127.57	166.33	0.00	0.00	0.00	0.00	96.29	88.31
- STD. DEV.	0.00	15.28	20.94	17.67	15.58	11.55	0.00	0.00	0.00	0.00	18.14	33.09

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	10	17	69	0	0	0	0	0
% AT STAGE	4.00	10.00	17.00	69.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	40	0	0	40
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	8.27	0.00	0.00	8.27

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	48	40	12	100
%	48.00	40.00	12.00	100.00
MEAN WEIGHT	92.21	97.97	40.50	88.31
% SAMP. WT.	50.12	44.38	5.50	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT

SAMPLE NUMBERS: 20,335, 28, 4

SOURCE: RESEARCH - INSHORE

GEAR: HERRING SEINE

DATE: NOV 7/88 - JAN 10/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	95	69	135	14	17	3	0	0	0	67	400
% AT AGE	0.00	28.53	20.72	40.54	4.20	5.11	0.90	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.54	186.48	201.89	207.29	210.88	225.33	0.00	0.00	0.00	182.12	187.79
- STD. DEV.	0.00	12.88	11.40	9.28	8.32	8.15	5.13	0.00	0.00	0.00	25.11	21.16
WEIGHT - MEAN(gm)	0.00	64.82	97.51	121.30	134.57	146.29	165.33	0.00	0.00	0.00	96.99	101.57
- STD. DEV.	0.00	16.00	19.85	16.90	16.56	22.04	7.51	0.00	0.00	0.00	34.03	32.52

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	4	16	90	258	32	0	0	0	0
% AT STAGE	1.00	4.00	22.50	64.50	8.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	171	9	0	180
%	95.00	5.00	0.00	100.00
% SAMPLE WEIGHT	8.02	0.71	0.00	8.73

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	213	180	7	400
%	53.25	45.00	1.75	100.00
MEAN WEIGHT	100.64	105.04	40.29	101.57
% SAMP. WT.	52.77	46.54	0.69	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 182 - PLUMPER SOUND

SAMPLE NUMBERS: 15

SOURCE: RESEARCH - INSHORE

GEAR: HERRING SEINE

DATE: OCT 12/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	95	0	0	0	0	0	0	0	0	0	5	100
% AT AGE	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	95.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.00	95.21
- STD. DEV.	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64	5.30
WEIGHT - MEAN(gm)	11.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.60	11.34
- STD. DEV.	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.98

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	100	0	0	0	0	0	0	0	0
% AT STAGE	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	0	0	0
%	0.00	0.00	0.00	0.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	0	0	100	100
%	0.00	0.00	100.00	100.00
MEAN WEIGHT	0.00	0.00	11.34	11.34
% SAMP. WT.	0.00	0.00	100.00	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS

SAMPLE NUMBERS: 349,365,348

SOURCE: RESEARCH - INSHORE

GEAR: HERRING SEINE

DATE: FEB 8/89 - FEB 10/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	38	129	60	20	8	3	0	1	33	300
% AT AGE	0.00	3.00	14.23	48.31	22.47	7.49	3.00	1.12	0.00	0.37	0.00	100.00
LENGTH - MEAN(mm)	0.00	176.75	190.13	204.72	218.60	222.40	228.63	238.00	0.00	245.00	208.94	207.65
- STD. DEV.	0.00	6.56	7.68	9.25	10.36	8.85	12.26	5.29	0.00	0.00	16.02	15.33
WEIGHT - MEAN(gm)	0.00	73.38	94.37	121.41	142.40	156.25	162.88	188.33	0.00	191.00	127.76	125.93
- STD. DEV.	0.00	9.72	11.00	17.13	22.57	19.35	26.82	16.50	0.00	0.00	29.00	28.13

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	69	161	66	0	0	0	0
% AT STAGE	0.00	1.33	23.00	53.67	22.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	131	1	0	132
%	99.24	0.76	0.00	100.00
% SAMPLE WEIGHT	12.96	0.25	0.00	13.21

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	167	132	1	300
%	55.67	44.00	0.33	100.00
MEAN WEIGHT	121.76	131.43	96.00	125.93
% SAMP. WT.	53.82	45.92	0.25	100.00

TABLE 8 (CONT'D) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION

SECTION: 233 - IMPERIAL EAGLE CHANNEL

SAMPLE NUMBERS: 341

SOURCE: RESEARCH - INSHORE

GEAR: HERRING SEINE

DATE: FEB 7/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	11	55	6	14	3	2	0	0	8	100
% AT AGE	0.00	1.09	11.96	59.78	6.52	15.22	3.26	2.17	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	183.00	186.91	204.33	207.83	223.57	240.00	239.50	0.00	0.00	214.25	207.67
- STD. DEV.	0.00	0.00	6.88	8.98	8.57	6.60	8.00	6.36	0.00	0.00	12.19	14.90
WEIGHT - MEAN(gm)	0.00	79.00	91.91	121.45	125.00	163.29	171.67	208.50	0.00	0.00	143.63	128.87
- STD. DEV.	0.00	0.00	8.31	17.47	18.78	16.37	19.01	0.71	0.00	0.00	19.32	28.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	52	47	0	0	0	0
% AT STAGE	0.00	0.00	1.00	52.00	47.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	35	8	0	43
%	81.40	18.60	0.00	100.00
% SAMPLE WEIGHT	14.51	4.53	0.00	19.04

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	57	43	0	100
%	57.00	43.00	0.00	100.00
MEAN WEIGHT	124.91	134.12	0.00	128.87
% SAMP. WT.	55.25	44.75	0.00	100.00

TABLE 9 SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT

SAMPLE NUMBERS: 6, 25, 8, 29, 17, 10, 22, 23, 11, 24, 12, 16, 13

SOURCE: FOOD FISHERY

GEAR: HERRING SEINE

DATE: NOV 7/88 - DEC 14/88

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	278	174	450	74	62	9	2	0	0	250	1299
% AT AGE	0.00	26.50	16.59	42.90	7.05	5.91	0.86	0.19	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.64	184.91	199.72	210.00	216.19	218.67	219.50	0.00	0.00	181.92	188.98
- STD. DEV.	0.00	10.34	12.44	11.06	9.07	9.92	3.74	6.36	0.00	0.00	21.51	20.03
WEIGHT - MEAN(gm)	0.00	71.95	99.49	124.35	146.04	156.98	163.89	165.00	0.00	0.00	97.45	107.76
- STD. DEV.	0.00	15.27	20.41	20.98	18.34	27.06	14.81	31.11	0.00	0.00	35.87	34.43

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	6	54	433	801	0	0	0	0	5
% AT STAGE	0.46	4.16	33.33	61.66	0.00	0.00	0.00	0.00	0.38

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	618	0	0	618
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	7.09	0.00	0.00	7.09

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	658	618	23	1299
%	50.65	47.58	1.77	100.00
MEAN WEIGHT	106.37	111.24	53.65	107.76
% SAMP. WT.	50.00	49.11	0.88	100.00

TABLE 10 SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 6 - LOUSCOONE INLET

SAMPLE NUMBERS: 259,262,302,296,315,265,297,317,267,272

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	12	24	721	39	0	7	4	1	3	178	989
% AT AGE	0.00	1.48	2.96	88.90	4.81	0.00	0.86	0.49	0.12	0.37	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.25	192.88	204.57	218.87	0.00	236.86	242.25	235.00	248.33	199.91	204.13
- STD. DEV.	0.00	5.80	8.54	8.86	7.72	0.00	8.47	9.22	0.00	5.69	14.28	12.20
WEIGHT - MEAN(gm)	0.00	62.67	97.71	122.03	155.03	0.00	188.29	192.00	179.00	189.67	113.46	121.50
- STD. DEV.	0.00	8.88	12.57	18.80	21.89	0.00	17.22	22.26	0.00	4.93	26.39	24.29

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	24	868	95	1	0	0
% AT STAGE	0.00	0.10	0.00	2.43	87.77	9.61	0.10	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	10	500	1	511
%	1.96	97.85	0.20	100.00
% SAMPLE WEIGHT	0.36	26.62	0.00	26.98

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	477	511	1	989
%	48.23	51.67	0.10	100.00
MEAN WEIGHT	118.03	124.84	66.00	121.50
% SAMP. WT.	46.86	53.09	0.05	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA INLET

SAMPLE NUMBERS: 255,266,274,277,247,250,273,257,268,252

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: APR 2/89 - APR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	130	340	202	29	41	32	6	3	211	995
% AT AGE	0.00	0.13	16.58	43.37	25.77	3.70	5.23	4.08	0.77	0.38	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.00	176.32	189.39	198.72	210.76	217.12	226.25	223.50	231.33	190.71	193.12
- STD. DEV.	0.00	0.00	7.92	9.78	8.85	8.13	8.77	9.15	6.72	8.33	17.67	16.09
WEIGHT - MEAN(gm)	0.00	60.00	75.88	96.83	113.01	134.72	147.46	174.50	150.17	175.33	101.73	104.63
- STD. DEV.	0.00	0.00	11.55	16.77	19.87	22.28	21.69	25.54	27.16	9.24	30.26	29.62

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	15	844	136	0	0	0
% AT STAGE	0.00	0.00	0.00	1.51	84.82	13.67	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	9	468	0	477
%	1.89	98.11	0.00	100.00
% SAMPLE WEIGHT	0.36	27.12	0.00	27.48

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	518	477	0	995
%	52.06	47.94	0.00	100.00
MEAN WEIGHT	98.33	111.47	0.00	104.63
% SAMP. WT.	48.93	51.07	0.00	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 67 - LAREDO SOUND

SAMPLE NUMBERS: 299,280,249,223,263,271,292,229,248,276

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: MAR 24/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	43	706	64	23	18	5	0	2	130	996
% AT AGE	0.00	0.58	4.97	81.52	7.39	2.66	2.08	0.58	0.00	0.23	0.00	100.00
LENGTH - MEAN(mm)	0.00	158.40	177.30	190.34	205.13	213.04	224.61	228.00	0.00	231.50	189.66	191.89
- STD. DEV.	0.00	5.13	10.90	10.66	9.92	12.58	11.23	13.98	0.00	3.54	19.69	14.71
WEIGHT - MEAN(gm)	0.00	56.20	79.09	100.36	129.22	147.43	173.94	172.60	0.00	179.50	105.04	104.62
- STD. DEV.	0.00	7.16	15.04	19.87	23.60	29.99	32.34	38.66	0.00	13.44	36.42	28.22

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	39	848	107	2	0	0
% AT STAGE	0.00	0.00	0.00	3.92	85.14	10.74	0.20	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	31	491	0	522
%	5.94	94.06	0.00	100.00
% SAMPLE WEIGHT	1.06	26.76	0.00	27.82

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	474	522	0	996
%	47.59	52.41	0.00	100.00
MEAN WEIGHT	97.28	111.30	0.00	104.62
% SAMP. WT.	44.25	55.75	0.00	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 77 - MILBANKE SOUND

SAMPLE NUMBERS: 279,254,251

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: MAR 25/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	7	214	21	11	7	0	5	3	31	300
% AT AGE	0.00	0.37	2.60	79.55	7.81	4.09	2.60	0.00	1.86	1.12	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.00	179.71	191.56	202.19	210.45	222.57	0.00	223.40	232.67	196.61	194.80
- STD. DEV.	0.00	0.00	10.26	9.96	13.41	14.80	11.39	0.00	11.89	5.51	19.56	14.54
WEIGHT - MEAN(gm)	0.00	58.00	81.57	102.25	122.29	134.82	178.14	0.00	150.20	177.67	113.06	108.66
- STD. DEV.	0.00	0.00	14.71	18.70	29.14	32.26	46.27	0.00	28.60	14.05	38.43	28.87

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	25	243	28	4	0	0
% AT STAGE	0.00	0.00	0.00	8.33	81.00	9.33	1.33	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	19	145	2	166
%	11.45	87.35	1.20	100.00
% SAMPLE WEIGHT	2.17	24.43	0.02	26.63

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	134	166	0	300
%	44.67	55.33	0.00	100.00
MEAN WEIGHT	99.63	115.95	0.00	108.66
% SAMP. WT.	40.95	59.05	0.00	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND

SAMPLE NUMBERS: 70, 56, 55,324, 68, 59, 52, 67, 53, 76, 66

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: MAR 6/89 - MAR 7/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	53	114	502	112	70	12	0	0	0	237	1100
% AT AGE	0.00	6.14	13.21	58.17	12.98	8.11	1.39	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	174.28	189.04	201.57	210.50	215.07	221.92	0.00	0.00	0.00	195.87	199.72
- STD. DEV.	0.00	8.62	10.51	10.66	10.21	10.25	8.12	0.00	0.00	0.00	16.75	14.99
WEIGHT - MEAN(gm)	0.00	67.47	89.82	110.65	127.13	133.51	151.58	0.00	0.00	0.00	102.28	108.18
- STD. DEV.	0.00	10.76	19.81	21.48	23.06	23.55	23.90	0.00	0.00	0.00	31.12	27.96

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	0	21	649	251	176	0	1
% AT STAGE	0.00	0.18	0.00	1.91	59.00	22.82	16.00	0.00	0.09

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	18	452	66	536
%	3.36	84.33	12.31	100.00
% SAMPLE WEIGHT	0.49	23.37	0.16	24.02

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	563	536	1	1100
%	51.18	48.73	0.09	100.00
MEAN WEIGHT	101.37	115.47	43.00	108.18
% SAMP. WT.	47.96	52.01	0.04	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT

SAMPLE NUMBERS: 72, 74, 54,322, 60, 58, 80,325

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: MAR 11/89 - MAR 12/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	57	73	346	84	67	12	4	0	1	155	799
% AT AGE	0.00	8.85	11.34	53.73	13.04	10.40	1.86	0.62	0.00	0.16	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.09	191.90	203.80	211.23	217.73	225.00	231.00	0.00	239.00	197.12	201.53
- STD. DEV.	0.00	8.17	10.71	10.23	9.55	9.44	11.00	3.56	0.00	0.00	18.37	16.47
WEIGHT - MEAN(gm)	0.00	65.18	95.29	116.49	132.83	149.03	163.67	190.50	0.00	182.00	108.48	114.94
- STD. DEV.	0.00	10.85	18.06	20.30	21.01	21.43	25.58	8.96	0.00	0.00	33.00	30.69

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	16	534	196	52	0	1
% AT STAGE	0.00	0.00	0.00	2.00	66.83	24.53	6.51	0.00	0.13

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	11	330	32	373
%	2.95	88.47	8.58	100.00
% SAMPLE WEIGHT	0.56	24.63	0.28	25.47

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	426	373	0	799
%	53.32	46.68	0.00	100.00
MEAN WEIGHT	110.70	119.79	0.00	114.94
% SAMP. WT.	51.35	48.65	0.00	100.00

TABLE 10 (CONT'D) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS

SAMPLE NUMBERS: 327, 69, 57,321,329,332,303,293, 78,314, 64,295,306,309

SOURCE: ROE FISHERY

GEAR: HERRING SEINE

DATE: MAR 13/89 - MAR 17/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	20	138	712	68	122	43	8	4	1	284	1400
% AT AGE	0.00	1.79	12.37	63.80	6.09	10.93	3.85	0.72	0.36	0.09	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.50	187.36	204.07	213.63	223.31	229.07	232.63	237.25	237.00	200.19	204.30
- STD. DEV.	0.00	8.49	8.83	8.94	9.68	9.28	8.91	6.23	10.21	0.00	18.87	15.81
WEIGHT - MEAN(gm)	0.00	62.10	95.52	125.45	143.24	164.19	174.07	189.50	192.75	205.00	120.12	126.86
- STD. DEV.	0.00	8.07	16.23	19.87	21.26	24.69	26.36	18.05	14.08	0.00	34.88	31.31

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	2	27	1144	218	8	0	1
% AT STAGE	0.00	0.00	0.14	1.93	81.71	15.57	0.57	0.00	0.07

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	18	672	3	693
%	2.60	96.97	0.43	100.00
% SAMPLE WEIGHT	0.39	27.78	0.01	28.18

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	705	693	2	1400
%	50.36	49.50	0.14	100.00
MEAN WEIGHT	120.74	133.33	45.00	126.86
% SAMP. WT.	47.93	52.02	0.05	100.00

TABLE 11 GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 33 - PORT SIMPSON

SAMPLE NUMBERS: 230

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: APR 2/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	1	23	8	19	15	1	2	31	100
% AT AGE	0.00	0.00	0.00	1.45	33.33	11.59	27.54	21.74	1.45	2.90	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	210.00	213.30	216.75	225.05	226.00	227.00	224.00	217.68	219.39
- STD. DEV.	0.00	0.00	0.00	0.00	8.48	3.88	8.66	9.60	0.00	8.49	7.82	9.37
WEIGHT - MEAN(gm)	0.00	0.00	0.00	140.00	140.13	141.50	150.26	160.00	164.00	136.50	140.10	145.30
- STD. DEV.	0.00	0.00	0.00	0.00	15.42	8.62	21.30	27.27	0.00	4.95	14.97	19.30

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	91	4	5	0	0
% AT STAGE	0.00	0.00	0.00	0.00	91.00	4.00	5.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	50	3	53
%	0.00	94.34	5.66	100.00
% SAMPLE WEIGHT	0.00	26.20	0.10	26.30

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	47	53	0	100
%	47.00	53.00	0.00	100.00
MEAN WEIGHT	140.26	149.77	0.00	145.30
% SAMP. WT.	45.37	54.63	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 42 - AREA 4 NORTH

SAMPLE NUMBERS: 270,253,269,260,256,278

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: APR 2/89 - APR 4/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	21	122	57	93	89	15	10	156	563
% AT AGE	0.00	0.00	0.00	5.16	29.98	14.00	22.85	21.87	3.69	2.46	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	209.76	212.30	218.11	221.83	225.34	228.67	231.80	217.74	218.72
- STD. DEV.	0.00	0.00	0.00	6.67	7.28	8.35	8.85	9.59	8.59	8.40	10.52	10.36
WEIGHT - MEAN(gm)	0.00	0.00	0.00	133.81	138.86	147.51	150.84	160.79	174.33	174.80	145.29	148.36
- STD. DEV.	0.00	0.00	0.00	11.86	15.10	18.70	18.53	22.43	22.55	24.95	18.88	20.76

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	3	451	92	17	0	0
% AT STAGE	0.00	0.00	0.00	0.53	80.11	16.34	3.02	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	2	301	5	308
%	0.65	97.73	1.62	100.00
% SAMPLE WEIGHT	0.17	27.48	0.02	27.67

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	255	308	0	563
%	45.29	54.71	0.00	100.00
MEAN WEIGHT	146.41	149.97	0.00	148.36
% SAMP. WT.	44.70	55.30	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 67 - LAREDO SOUND

SAMPLE NUMBERS: 275,261,316

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: MAR 30/89 - MAR 31/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	55	63	38	32	13	9	10	80	300
% AT AGE	0.00	0.00	0.00	25.00	28.64	17.27	14.55	5.91	4.09	4.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	208.85	212.49	220.03	225.06	225.77	230.67	236.60	218.54	217.66
- STD. DEV.	0.00	0.00	0.00	8.25	8.16	9.72	9.62	7.17	9.23	9.44	11.34	11.62
WEIGHT - MEAN(gm)	0.00	0.00	0.00	136.82	143.40	151.26	167.03	164.23	157.56	175.30	149.23	149.65
- STD. DEV.	0.00	0.00	0.00	17.71	19.38	16.74	24.42	16.75	25.28	37.10	21.41	22.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	250	42	8	0	0
% AT STAGE	0.00	0.00	0.00	0.00	83.33	14.00	2.67	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	157	6	163
%	0.00	96.32	3.68	100.00
% SAMPLE WEIGHT	0.00	27.79	0.05	27.84

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	137	163	0	300
%	45.67	54.33	0.00	100.00
MEAN WEIGHT	147.83	151.18	0.00	149.65
% SAMP. WT.	45.11	54.89	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY

SAMPLE NUMBERS: 312,313

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: MAR 30/89 - APR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	34	32	30	26	7	3	4	63	200
% AT AGE	0.00	0.00	0.73	24.82	23.36	21.90	18.98	5.11	2.19	2.92	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	196.00	208.50	211.81	221.00	223.54	235.14	230.33	235.00	212.38	215.81
- STD. DEV.	0.00	0.00	0.00	6.62	10.63	9.09	9.53	6.77	12.66	10.30	12.46	12.42
WEIGHT - MEAN(gm)	0.00	0.00	101.00	128.85	139.19	152.13	157.62	170.57	156.33	204.50	145.52	146.24
- STD. DEV.	0.00	0.00	0.00	12.78	19.67	18.16	30.62	13.15	18.72	43.76	25.11	25.89

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	140	32	28	0	0
% AT STAGE	0.00	0.00	0.00	0.00	70.00	16.00	14.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	94	13	107
%	0.00	87.85	12.15	100.00
% SAMPLE WEIGHT	0.00	24.42	0.22	24.64

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	93	107	0	200
%	46.50	53.50	0.00	100.00
MEAN WEIGHT	141.87	150.03	0.00	146.24
% SAMP. WT.	45.11	54.89	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 75 - MCNAUGHTON GROUP

SAMPLE NUMBERS: 308

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: APR 4/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	19	19	9	9	3	3	0	38	100
% AT AGE	0.00	0.00	0.00	30.65	30.65	14.52	14.52	4.84	4.84	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	205.53	209.32	217.89	216.56	225.00	227.67	0.00	208.21	210.62
- STD. DEV.	0.00	0.00	0.00	8.48	9.62	12.09	9.33	13.08	6.43	0.00	9.99	11.00
WEIGHT - MEAN(gm)	0.00	0.00	0.00	143.32	153.84	160.11	163.00	180.67	166.33	0.00	150.08	152.98
- STD. DEV.	0.00	0.00	0.00	20.23	28.53	24.45	23.06	48.81	8.50	0.00	18.62	23.59

BJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	94	3	3	0	0
% AT STAGE	0.00	0.00	0.00	0.00	94.00	3.00	3.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	56	2	58
%	0.00	96.55	3.45	100.00
% SAMPLE WEIGHT	0.00	26.77	0.07	26.83

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	42	58	0	100
%	42.00	58.00	0.00	100.00
MEAN WEIGHT	146.76	157.48	0.00	152.98
% SAMP. WT.	40.29	59.71	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 77 - MILBANKE SOUND

SAMPLE NUMBERS: 318,311,310,360,246

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: MAR 30/89 - APR 4/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	88	64	46	50	18	11	13	209	500
% AT AGE	0.00	0.00	0.34	30.24	21.99	15.81	17.18	6.19	3.78	4.47	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	205.00	209.34	214.67	218.91	222.58	223.00	228.73	229.38	214.05	215.63
- STD. DEV.	0.00	0.00	0.00	9.07	9.99	9.07	10.11	8.79	8.51	7.56	11.33	11.33
WEIGHT - MEAN(gm)	0.00	0.00	124.00	136.41	145.06	150.30	164.08	163.72	152.91	162.54	149.08	148.86
- STD. DEV.	0.00	0.00	0.00	16.07	19.50	21.87	26.67	26.15	25.40	25.09	24.22	23.85

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	13	413	60	13	0	0
% AT STAGE	0.00	0.00	0.20	2.60	82.60	12.00	2.60	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	282	9	292
%	0.34	96.58	3.08	100.00
% SAMPLE WEIGHT	0.01	27.96	0.11	28.08

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	208	292	0	500
%	41.60	58.40	0.00	100.00
MEAN WEIGHT	144.09	152.26	0.00	148.86
% SAMP. WT.	40.27	59.73	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND

SAMPLE NUMBERS: 331, 61,323, 65, 73, 71,364, 75, 79, 51

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: MAR 7/89 - MAR 15/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	12	303	160	195	60	17	2	0	251	1000
% AT AGE	0.00	0.00	1.60	40.45	21.36	26.03	8.01	2.27	0.27	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	205.83	212.46	216.38	220.09	219.65	225.53	234.50	0.00	215.75	216.02
- STD. DEV.	0.00	0.00	5.95	6.59	7.77	7.99	8.38	8.92	4.95	0.00	10.88	9.05
WEIGHT - MEAN(gm)	0.00	0.00	120.75	134.92	139.96	146.16	144.53	160.53	162.00	0.00	138.74	139.77
- STD. DEV.	0.00	0.00	10.13	12.42	15.06	17.75	16.95	27.44	49.50	0.00	15.46	16.30

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	10	792	145	52	0	1
% AT STAGE	0.00	0.00	0.00	1.00	79.20	14.50	5.20	0.00	0.10

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	5	570	30	605
%	0.83	94.21	4.96	100.00
% SAMPLE WEIGHT	0.20	24.02	0.11	24.32

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	395	605	0	1000
%	39.50	60.50	0.00	100.00
MEAN WEIGHT	139.76	139.78	0.00	139.77
% SAMP. WT.	39.50	60.50	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 143 - QUALICUM

SAMPLE NUMBERS: 77

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: MAR 15/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	28	21	18	4	1	1	0	26	100
% AT AGE	0.00	0.00	1.35	37.84	28.38	24.32	5.41	1.35	1.35	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	192.00	208.93	213.95	221.00	232.25	217.00	241.00	0.00	212.31	214.20
- STD. DEV.	0.00	0.00	0.00	6.64	8.04	6.73	3.77	0.00	0.00	0.00	10.87	10.29
WEIGHT - MEAN(gm)	0.00	0.00	105.00	131.64	146.05	152.67	167.25	139.00	154.00	0.00	139.08	141.84
- STD. DEV.	0.00	0.00	0.00	13.92	20.26	17.38	15.31	0.00	0.00	0.00	18.86	19.56

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	1	78	16	5	0	0
% AT STAGE	0.00	0.00	0.00	1.00	78.00	16.00	5.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	40	4	44
%	0.00	90.91	9.09	100.00
% SAMPLE WEIGHT	0.00	26.04	0.16	26.19

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	56	44	0	100
%	56.00	44.00	0.00	100.00
MEAN WEIGHT	138.68	145.86	0.00	141.84
% SAMP. WT.	54.75	45.25	0.00	100.00

TABLE 11 (CONT'D) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS

SAMPLE NUMBERS: 305,304,307,319,294,320

SOURCE: ROE FISHERY

GEAR: GILLNET

DATE: MAR 23/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	208	42	85	36	6	4	0	218	600
% AT AGE	0.00	0.00	0.26	54.45	10.99	22.25	9.42	1.57	1.05	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	204.00	212.85	219.17	226.07	233.33	227.83	240.00	0.00	216.27	217.95
- STD. DEV.	0.00	0.00	0.00	6.66	8.40	7.37	8.85	7.49	5.60	0.00	9.22	10.11
WEIGHT - MEAN(gm)	0.00	0.00	111.00	141.80	148.12	162.07	177.25	161.17	183.50	0.00	146.62	149.41
- STD. DEV.	0.00	0.00	0.00	13.87	17.49	19.50	22.17	28.74	16.44	0.00	17.70	19.88

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	1	510	87	2	0	0
% AT STAGE	0.00	0.00	0.00	0.17	85.00	14.50	0.33	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	305	0	306
%	0.33	99.67	0.00	100.00
% SAMPLE WEIGHT	0.11	29.25	0.00	29.36

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	294	306	0	600
%	49.00	51.00	0.00	100.00
MEAN WEIGHT	146.96	151.77	0.00	149.41
% SAMP. WT.	48.20	51.80	0.00	100.00

TABLE 12 PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 2W - WEST COAST Q.C.I.

SAMPLE NUMBERS: 209,210,205,337,338,204,167,215,203,363, 206,212,194,201,202,208,214,213,164,158, 151

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 9/89 - APR 7/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	48	90	1587	215	8	9	14	10	17	100	2098
% AT AGE	0.00	2.40	4.50	79.43	10.76	0.40	0.45	0.70	0.50	0.85	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.58	191.87	205.49	217.76	226.25	234.11	239.79	242.70	244.47	206.70	206.27
- STD. DEV.	0.00	8.58	8.28	8.63	8.85	9.51	13.39	10.98	4.90	8.38	16.59	13.12
WEIGHT - MEAN(gm)	0.00	61.90	97.77	127.95	157.53	174.38	191.33	201.93	216.10	216.12	131.13	130.41
- STD. DEV.	0.00	11.41	15.66	20.50	22.40	29.15	28.51	34.84	20.56	33.20	39.27	29.39

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	1	252	1693	144	4	0	0
% AT STAGE	0.00	0.19	0.05	12.01	80.70	6.86	0.19	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	204	868	0	1072
%	19.03	80.97	0.00	100.00
% SAMPLE WEIGHT	3.79	21.80	0.00	25.60

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1024	1072	2	2098
%	48.81	51.10	0.10	100.00
MEAN WEIGHT	122.75	137.81	86.50	130.41
% SAMP. WT.	45.94	54.00	0.06	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 2E - EAST COAST Q.C.I.

SAMPLE NUMBERS: 152,233,232,207,166,160,163,169,157,154, 165,159,193,170,155,156,168,162,211,161, 153,234

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 7/89 - APR 4/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	120	552	990	84	54	129	93	21	34	122	2199
% AT AGE	0.00	5.78	26.58	47.66	4.04	2.60	6.21	4.48	1.01	1.64	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.31	187.29	199.80	211.73	220.20	228.15	232.41	233.62	240.85	206.64	199.84
- STD. DEV.	0.00	7.31	7.68	8.53	9.58	9.43	9.07	9.62	11.12	9.13	21.79	19.11
WEIGHT - MEAN(gm)	0.00	52.34	92.26	114.35	138.43	159.00	177.26	192.23	193.90	206.62	132.20	117.60
- STD. DEV.	0.00	8.23	12.57	16.55	22.30	21.51	23.96	27.64	36.71	29.22	45.28	38.62

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	11	44	12	436	1569	125	2	0	0
% AT STAGE	0.50	2.00	0.55	19.83	71.35	5.68	0.09	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	336	747	1	1084
%	31.00	68.91	0.09	100.00
% SAMPLE WEIGHT	5.15	19.27	0.00	24.42

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1082	1084	33	2199
%	49.20	49.30	1.50	100.00
MEAN WEIGHT	115.29	122.01	48.36	117.60
% SAMP. WT.	48.24	51.15	0.62	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 3 - MASS

SAMPLE NUMBERS: 288,301,284,241,239,231,244

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 16/89 - MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	157	181	204	44	31	21	6	0	54	700
% AT AGE	0.00	0.31	24.30	28.02	31.58	6.81	4.80	3.25	0.93	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.50	175.61	191.73	199.90	213.45	217.13	226.33	223.00	0.00	195.09	194.44
- STD. DEV.	0.00	10.61	9.08	8.34	8.99	9.27	7.50	7.75	7.82	0.00	18.17	16.53
WEIGHT - MEAN(gm)	0.00	44.00	73.25	100.17	116.66	137.98	145.10	169.43	162.00	0.00	108.11	106.36
- STD. DEV.	0.00	8.49	12.95	14.45	20.80	18.77	16.93	27.83	25.93	0.00	30.27	30.35

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	149	489	60	2	0	0
% AT STAGE	0.00	0.00	0.00	21.29	69.86	8.57	0.29	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	122	212	2	336
%	36.31	63.10	0.60	100.00
% SAMPLE WEIGHT	7.48	18.53	0.14	26.15

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	364	336	0	700
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	101.27	111.88	0.00	106.36
% SAMP. WT.	49.51	50.49	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 4 - SKEENA

SAMPLE NUMBERS: 217,224,218,225,290,243,281,282,222,235, 228

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 17/89 - MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	253	298	292	56	49	42	8	3	90	1093
% AT AGE	0.00	0.20	25.22	29.71	29.11	5.58	4.89	4.19	0.80	0.30	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.50	175.50	188.83	200.02	210.95	215.06	221.43	228.13	240.67	194.54	193.16
- STD. DEV.	0.00	9.19	9.10	8.77	9.30	9.81	7.36	8.55	6.92	12.01	18.39	16.63
WEIGHT - MEAN(gm)	0.00	64.50	74.50	96.23	116.92	136.32	144.43	160.52	168.38	202.67	116.53	105.85
- STD. DEV.	0.00	14.85	12.77	16.13	19.59	21.34	19.93	27.81	19.18	10.50	77.10	36.73

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	5	166	829	80	13	0	0
% AT STAGE	0.00	0.00	0.46	15.19	75.85	7.32	1.19	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	115	406	7	528
%	21.78	76.89	1.33	100.00
% SAMPLE WEIGHT	3.74	21.65	0.03	25.42

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	564	528	1	1093
%	51.60	48.31	0.09	100.00
MEAN WEIGHT	100.53	111.63	54.00	105.85
% SAMP. WT.	49.01	50.94	0.05	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 5 - GRENVILLE-PRINCIPE

SAMPLE NUMBERS: 216,219,226,287,298,220,291,258,286,242, 264,289,283

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 19/89 - APR 6/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	13	239	487	303	49	41	34	3	4	118	1291
% AT AGE	0.00	1.11	20.38	41.52	25.83	4.18	3.50	2.90	0.26	0.34	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.23	176.44	187.34	198.77	208.33	216.34	221.18	222.33	233.75	188.59	190.70
- STD. DEV.	0.00	9.63	8.98	9.72	9.76	8.37	11.85	9.51	6.66	16.30	18.34	15.66
WEIGHT - MEAN(gm)	0.00	56.92	76.52	94.69	115.19	134.96	151.46	162.12	150.33	203.25	99.30	101.75
- STD. DEV.	0.00	10.94	14.10	17.12	20.24	20.93	26.83	31.46	28.01	57.31	30.02	29.20

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	79	1113	95	3	0	1
% AT STAGE	0.00	0.00	0.00	6.12	86.21	7.36	0.23	0.00	0.08

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	48	566	1	615
%	7.80	92.03	0.16	100.00
% SAMPLE WEIGHT	1.59	25.77	0.00	27.36

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	674	615	2	1291
%	52.21	47.64	0.15	100.00
MEAN WEIGHT	95.26	109.04	51.00	101.75
% SAMP. WT.	48.87	51.05	0.08	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 6 - BUTEDALE

SAMPLE NUMBERS: 185,179,187,200,183,190,182,189,175,191,
188,177,186,192,199,196

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 3/89 - MAR 24/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	17	50	1139	135	46	30	18	10	13	136	1594
% AT AGE	0.00	1.17	3.43	78.12	9.26	3.16	2.06	1.23	0.69	0.89	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.24	178.56	188.88	202.99	214.39	219.70	220.72	226.10	227.00	190.38	191.74
- STD. DEV.	0.00	9.24	11.06	10.28	10.19	9.64	7.44	11.09	13.15	13.17	20.24	14.96
WEIGHT - MEAN(gm)	0.00	50.82	82.62	100.94	126.55	150.39	164.30	166.83	173.60	175.92	107.57	107.00
- STD. DEV.	0.00	10.44	18.01	20.14	23.53	25.90	23.66	31.71	37.98	41.04	39.64	29.59

BJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	5	501	1061	24	1	1	0
% AT STAGE	0.00	0.06	0.31	31.43	66.56	1.51	0.06	0.06	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	338	498	2	838
%	40.33	59.43	0.24	100.00
% SAMPLE WEIGHT	8.72	17.62	0.00	26.35

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	755	838	1	1594
%	47.37	52.57	0.06	100.00
MEAN WEIGHT	100.30	113.10	48.00	107.00
% SAMP. WT.	44.40	55.57	0.03	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 7 - BELLA BELLA

SAMPLE NUMBERS: 131,197,198,126,139,184,171,172,178,180,
122,141,227,181,130,137,142,123,195,221,
145,174,136,176,125,140,173,128

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 2/89 - MAR 26/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	40	120	1826	254	89	84	18	27	26	290	2774
% AT AGE	0.00	1.61	4.83	73.51	10.23	3.58	3.38	0.72	1.09	1.05	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.63	179.50	190.86	204.55	211.03	221.95	227.50	230.22	236.23	187.74	193.48
- STD. DEV.	0.00	8.11	10.42	11.49	11.91	12.49	11.14	11.39	9.32	12.57	22.63	16.94
WEIGHT - MEAN(gm)	0.00	59.40	87.60	108.09	135.65	151.20	180.74	194.39	190.89	207.15	105.34	114.62
- STD. DEV.	0.00	11.39	17.90	23.96	27.06	33.11	33.17	32.76	32.66	32.97	45.72	35.76

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	5	19	716	1917	113	4	0	0
% AT STAGE	0.00	0.18	0.68	25.81	69.11	4.07	0.14	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	533	908	1	1442
%	36.96	62.97	0.07	100.00
% SAMPLE WEIGHT	7.72	18.72	0.00	26.45

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1326	1442	6	2774
%	47.80	51.98	0.22	100.00
MEAN WEIGHT	107.41	121.42	71.67	114.62
% SAMP. WT.	44.80	55.07	0.14	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 8 - BELLA COOLA

SAMPLE NUMBERS: 135,149,343,146,362,132

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 2/89 - APR 6/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	39	412	43	33	19	2	3	2	40	600
% AT AGE	0.00	1.25	6.96	73.57	7.68	5.89	3.39	0.36	0.54	0.36	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.29	175.10	186.07	196.44	204.85	213.79	215.00	220.33	229.50	195.15	188.68
- STD. DEV.	0.00	7.11	10.30	11.01	11.80	10.80	11.73	8.49	6.66	10.61	18.22	14.70
WEIGHT - MEAN(gm)	0.00	51.71	73.97	92.72	111.05	131.94	147.79	155.50	158.67	185.00	110.90	98.29
- STD. DEV.	0.00	10.36	13.63	18.86	24.18	28.00	32.22	12.02	24.68	76.37	34.29	27.60

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	0	247	290	30	31	0	0
% AT STAGE	0.17	0.17	0.00	41.17	48.33	5.00	5.17	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	163	92	13	268
%	60.82	34.33	4.85	100.00
% SAMPLE WEIGHT	14.31	8.75	0.06	23.12

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	329	268	3	600
%	54.83	44.67	0.50	100.00
MEAN WEIGHT	93.54	104.61	54.67	98.29
% SAMP. WT.	52.18	47.54	0.28	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 9 - RIVERS INLET

SAMPLE NUMBERS: 351

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: APR 5/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	9	63	9	2	3	0	0	0	13	100
% AT AGE	0.00	1.15	10.34	72.41	10.34	2.30	3.45	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.00	166.44	173.86	194.67	212.50	200.00	0.00	0.00	0.00	174.62	176.63
- STD. DEV.	0.00	0.00	14.02	11.73	11.82	7.78	1.73	0.00	0.00	0.00	20.23	15.87
WEIGHT - MEAN(gm)	0.00	66.00	70.78	74.43	104.00	144.00	121.00	0.00	0.00	0.00	72.46	79.21
- STD. DEV.	0.00	0.00	22.48	16.95	24.62	18.38	17.58	0.00	0.00	0.00	25.82	24.14

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	0	3	79	10	7	0	0
% AT STAGE	1.00	0.00	0.00	3.00	79.00	10.00	7.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	43	4	48
%	2.08	89.58	8.33	100.00
% SAMPLE WEIGHT	0.32	24.35	0.10	24.77

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	51	48	1	100
%	51.00	48.00	1.00	100.00
MEAN WEIGHT	75.06	83.94	64.00	79.21
% SAMP. WT.	48.33	50.86	0.81	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 10 - SMITH INLET

SAMPLE NUMBERS: 240,354

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: APR 2/89 - APR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	12	100	40	6	5	0	1	1	30	200
% AT AGE	0.00	2.94	7.06	58.82	23.53	3.53	2.94	0.00	0.59	0.59	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.40	175.75	178.24	185.30	198.33	200.40	0.00	237.00	225.00	181.40	181.12
- STD. DEV.	0.00	5.59	11.30	13.49	10.90	14.65	8.20	0.00	0.00	0.00	19.87	15.94
WEIGHT - MEAN(gm)	0.00	50.20	79.25	84.99	97.00	119.50	120.60	0.00	208.00	192.00	93.17	90.48
- STD. DEV.	0.00	5.67	16.52	22.21	21.21	26.62	26.34	0.00	0.00	0.00	32.15	27.82

EJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	13	183	3	0	0	0
% AT STAGE	0.00	0.50	0.00	6.50	91.50	1.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	3	123	0	126
%	2.38	97.62	0.00	100.00
% SAMPLE WEIGHT	0.38	25.59	0.00	25.97

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	74	126	0	200
%	37.00	63.00	0.00	100.00
MEAN WEIGHT	82.97	94.89	0.00	90.48
% SAMP. WT.	33.93	66.07	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 11 - SEYMOUR-BELIZE

SAMPLE NUMBERS: 237

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: APR 1/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	72	10	2	0	0	0	0	0	0	16	100
% AT AGE	0.00	85.71	11.90	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	105.99	121.60	127.00	0.00	0.00	0.00	0.00	0.00	0.00	100.69	107.12
- STD. DEV.	0.00	6.98	5.48	1.41	0.00	0.00	0.00	0.00	0.00	0.00	5.70	8.91
WEIGHT - MEAN(gm)	0.00	14.29	20.70	25.50	0.00	0.00	0.00	0.00	0.00	0.00	11.69	14.74
- STD. DEV.	0.00	3.23	3.50	2.12	0.00	0.00	0.00	0.00	0.00	0.00	2.60	4.16

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	44	52	2	0	0	0	0
% AT STAGE	1.00	1.00	44.00	52.00	2.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	56	0	0	56
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	6.72	0.00	0.00	6.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	43	56	1	100
%	43.00	56.00	1.00	100.00
MEAN WEIGHT	14.33	15.14	10.00	14.74
% SAMP. WT.	41.79	57.53	0.68	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 12 - ALERT BAY

SAMPLE NUMBERS: 352,350,356,238,345,355,346,344,358,236, 353

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 22/89 - MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	3	263	115	384	34	21	38	1	0	3	136	998
% AT AGE	0.35	30.51	13.34	44.55	3.94	2.44	4.41	0.12	0.00	0.35	0.00	100.00
LENGTH - MEAN(mm)	104.67	136.13	163.71	166.90	177.21	184.48	185.76	195.00	0.00	200.67	150.57	157.58
- STD. DEV.	4.51	16.92	24.75	16.57	25.97	11.17	9.91	0.00	0.00	4.51	27.00	24.86
WEIGHT - MEAN(gm)	13.00	31.98	61.22	63.13	77.44	79.81	79.26	86.00	0.00	92.67	48.10	54.06
- STD. DEV.	1.73	12.08	25.38	22.08	33.55	18.98	16.23	0.00	0.00	10.12	27.12	26.30

BJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	47	103	89	206	189	27	292	1	44
% AT STAGE	4.71	10.32	8.92	20.64	18.94	2.71	29.26	0.10	4.41

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	232	72	141	445
%	52.13	16.18	31.69	100.00
% SAMPLE WEIGHT	4.06	5.76	0.59	10.40

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	415	445	138	998
%	41.58	44.59	13.83	100.00
MEAN WEIGHT	54.16	60.44	33.20	54.06
% SAMP. WT.	41.66	49.85	8.49	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 13 - QUATHIASKI

SAMPLE NUMBERS: 39,121

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 2/89 - MAR 14/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	22	60	92	7	2	2	0	0	0	15	200
% AT AGE	0.00	11.89	32.43	49.73	3.78	1.08	1.08	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.77	175.48	185.91	197.71	205.00	212.00	0.00	0.00	0.00	181.60	180.12
- STD. DEV.	0.00	6.45	10.22	12.57	6.73	4.24	21.21	0.00	0.00	0.00	14.73	15.38
WEIGHT - MEAN(gm)	0.00	45.82	65.62	80.10	101.57	108.50	130.50	0.00	0.00	0.00	75.93	73.21
- STD. DEV.	0.00	7.80	12.11	19.30	8.42	10.61	54.45	0.00	0.00	0.00	18.07	21.39

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	2	3	79	63	6	46	0	0
% AT STAGE	0.50	1.00	1.50	39.50	31.50	3.00	23.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	48	28	15	91
%	52.75	30.77	16.48	100.00
% SAMPLE WEIGHT	8.71	5.64	0.42	14.77

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	107	91	2	200
%	53.50	45.50	1.00	100.00
MEAN WEIGHT	70.76	76.43	58.00	73.21
% SAMP. WT.	51.71	47.50	0.79	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 14 - COMOX

SAMPLE NUMBERS: 30, 46, 20, 12, 48, 40, 25, 32, 45, 21,
3, 18, 27, 7, 35, 19, 6, 11, 37

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 24/89 - MAR 13/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	176	284	863	176	138	32	6	2	0	221	1898
% AT AGE	0.00	10.49	16.94	51.46	10.49	8.23	1.91	0.36	0.12	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.82	186.04	200.87	209.35	213.36	219.06	219.83	221.00	0.00	195.37	197.21
- STD. DEV.	0.00	9.41	12.08	10.90	9.98	9.22	9.57	7.57	5.66	0.00	16.98	16.49
WEIGHT - MEAN(gm)	0.00	63.50	87.04	113.08	129.87	139.73	150.19	149.00	158.00	0.00	106.33	108.08
- STD. DEV.	0.00	13.29	22.69	23.96	24.77	26.94	25.56	34.15	12.73	0.00	32.30	31.86

BJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	17	21	277	1039	240	302	2	0
% AT STAGE	0.00	0.90	1.11	14.59	54.74	12.64	15.91	0.11	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	210	674	113	997
%	21.06	67.60	11.33	100.00
% SAMPLE WEIGHT	3.89	18.44	0.22	22.55

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	889	997	12	1898
%	46.84	52.53	0.63	100.00
MEAN WEIGHT	101.79	114.29	58.00	108.08
% SAMP. WT.	44.11	55.55	0.34	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 15 - WESTVIEW

SAMPLE NUMBERS: 22, 13, 36, 50, 26, 42, 34, 17, 33, 29, 150, 23,334, 31, 16, 24, 15,129, 28,143, 38, 14

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 26/89 - MAR 13/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	1	84	424	1099	136	112	39	9	0	0	291	2195
% AT AGE	0.05	4.41	22.27	57.72	7.14	5.88	2.05	0.47	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	104.00	156.30	178.43	190.09	200.65	206.30	210.77	214.56	0.00	0.00	188.20	188.20
- STD. DEV.	0.00	11.78	9.02	10.78	10.61	10.13	8.05	6.06	0.00	0.00	15.91	15.05
WEIGHT - MEAN(gm)	11.00	49.52	73.63	90.11	109.12	119.42	130.64	144.11	0.00	0.00	88.45	88.73
- STD. DEV.	0.00	10.44	13.36	19.14	21.31	21.59	19.56	17.29	0.00	0.00	24.82	24.23

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	17	5	269	1286	345	268	0	2
% AT STAGE	0.14	0.77	0.23	12.26	58.59	15.72	12.21	0.00	0.09

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	235	808	99	1142
%	20.58	70.75	8.67	100.00
% SAMPLE WEIGHT	3.38	16.70	0.15	20.23

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1013	1142	40	2195
%	46.15	52.03	1.82	100.00
MEAN WEIGHT	85.02	92.79	66.68	88.73
% SAMP. WT.	44.22	54.41	1.37	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 16 - PENDER HARBOUR

SAMPLE NUMBERS: 124,133

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 13/89 - MAR 16/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	55	103	3	5	1	0	0	0	27	200
% AT AGE	0.00	3.47	31.79	59.54	1.73	2.89	0.58	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.17	176.38	187.50	203.33	211.20	212.00	0.00	0.00	0.00	180.19	183.55
- STD. DEV.	0.00	14.76	8.90	11.69	13.87	10.13	0.00	0.00	0.00	0.00	12.11	13.82
WEIGHT - MEAN(gm)	0.00	47.50	63.33	73.77	95.33	107.20	102.00	0.00	0.00	0.00	67.00	70.50
- STD. DEV.	0.00	9.77	11.62	15.47	25.32	14.82	0.00	0.00	0.00	0.00	12.18	16.66

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	4	15	8	172	0	0
% AT STAGE	0.00	0.50	0.00	2.00	7.50	4.00	86.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	4	11	56	71
%	5.63	15.49	78.87	100.00
% SAMPLE WEIGHT	1.02	3.39	1.71	6.13

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	118	71	11	200
%	59.00	35.50	5.50	100.00
MEAN WEIGHT	68.00	75.63	64.09	70.50
% SAMP. WT.	56.91	38.09	5.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 17 - NANAIMO

SAMPLE NUMBERS: 41, 5, 49, 8, 10, 1, 2, 43, 4, 47, 44

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 28/89 - MAR 12/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	217	156	454	90	59	5	1	0	0	118	1100
% AT AGE	0.00	22.10	15.89	46.23	9.16	6.01	0.51	0.10	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.24	184.78	201.24	211.37	219.02	228.00	220.00	0.00	0.00	191.56	193.47
- STD. DEV.	0.00	10.42	12.60	10.01	8.22	8.80	12.43	0.00	0.00	0.00	20.32	18.94
WEIGHT - MEAN(gm)	0.00	62.81	86.60	112.34	130.50	149.05	174.40	151.00	0.00	0.00	100.11	101.38
- STD. DEV.	0.00	13.23	19.19	20.89	20.10	22.37	35.73	0.00	0.00	0.00	35.11	32.46

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	16	9	481	486	60	45	0	0
% AT STAGE	0.27	1.45	0.82	43.73	44.18	5.45	4.09	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	271	260	15	546
%	49.63	47.62	2.75	100.00
% SAMPLE WEIGHT	9.57	13.88	0.05	23.50

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	542	546	12	1100
%	49.27	49.64	1.09	100.00
MEAN WEIGHT	96.58	107.26	50.83	101.38
% SAMP. WT.	46.94	52.51	0.55	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 18 - COWICHAN

SAMPLE NUMBERS: 9

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	41	13	26	5	6	0	0	0	0	9	100
% AT AGE	0.00	45.05	14.29	28.57	5.49	6.59	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.29	187.15	197.46	208.00	218.33	0.00	0.00	0.00	0.00	186.44	183.72
- STD. DEV.	0.00	9.06	13.05	9.52	4.90	11.86	0.00	0.00	0.00	0.00	12.88	19.82
WEIGHT - MEAN(gm)	0.00	57.68	94.15	112.58	135.80	148.67	0.00	0.00	0.00	0.00	92.56	89.20
- STD. DEV.	0.00	12.37	19.60	19.11	7.16	30.43	0.00	0.00	0.00	0.00	25.68	34.44

NJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	0	32	64	0	1	0	0
% AT STAGE	0.00	3.00	0.00	32.00	64.00	0.00	1.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	13	30	1	44
%	29.55	68.18	2.27	100.00
% SAMPLE WEIGHT	3.53	18.38	0.05	21.95

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	53	44	3	100
%	53.00	44.00	3.00	100.00
MEAN WEIGHT	90.66	90.91	38.33	89.20
% SAMP. WT.	53.87	44.84	1.29	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 23 - BARKLEY SOUND

SAMPLE NUMBERS: 98,138,134,112, 63, 92,111, 94,101,144,
87, 84,102, 89,115,104, 97, 82,103, 90,
85,107, 62,117,105,109, 91, 86, 93, 81,
100,147

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 25/89 - MAR 19/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	100	453	1772	170	215	94	22	3	1	370	3200
% AT AGE	0.00	3.53	16.01	62.61	6.01	7.60	3.32	0.78	0.11	0.04	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.12	188.21	203.51	213.45	221.68	229.02	235.36	229.67	243.00	203.13	202.85
- STD. DEV.	0.00	±0.11	8.96	8.91	9.13	9.59	8.94	7.84	8.51	0.00	17.74	15.55
WEIGHT - MEAN(gm)	0.00	63.36	97.77	125.87	145.59	165.46	174.69	191.32	194.00	219.00	125.62	125.59
- STD. DEV.	0.00	12.20	16.29	20.04	22.70	27.21	25.77	22.47	39.95	0.00	34.60	31.13

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	2	279	2627	274	14	0	1
% AT STAGE	0.00	0.09	0.06	8.72	82.09	8.56	0.44	0.00	0.03

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	1576	1622	2	3200
%	49.25	50.69	0.06	100.00
MEAN WEIGHT	117.04	133.94	96.50	125.59
% SAMP. WT.	45.90	54.06	0.05	100.00

ROE MATURITY (FEMALE):

	INMATURE	MATURE	SPENT	TOTAL
NO.	158	1461	3	1622
%	9.74	90.07	0.18	100.00
% SAMPLE WEIGHT	2.29	25.98	0.00	28.27

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 24 - CLAYOQUOT SOUND

SAMPLE NUMBERS: 113,342,300,106,148,245,347,361,339,127, 120

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 26/89 - MAR 14/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	188	627	78	72	33	3	0	0	76	1096
% AT AGE	0.00	1.86	18.43	61.47	7.65	7.06	3.24	0.29	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.47	189.03	205.10	214.79	226.56	228.30	236.33	0.00	0.00	203.13	204.47
- STD. DEV.	0.00	9.69	8.27	8.77	8.84	7.77	8.15	8.51	0.00	0.00	18.67	14.65
WEIGHT - MEAN(gm)	0.00	68.05	94.85	125.12	145.15	175.42	176.24	213.33	0.00	0.00	122.61	125.27
- STD. DEV.	0.00	9.50	14.97	21.95	21.36	22.74	18.36	24.44	0.00	0.00	39.79	31.77

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	2	173	631	105	156	1	25
% AT STAGE	0.00	0.27	0.18	15.78	57.57	9.58	14.23	0.09	2.28

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	143	331	28	502
%	28.49	65.94	5.58	100.00
% SAMPLE WEIGHT	5.55	20.57	0.07	26.20

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	494	502	100	1096
%	45.07	45.80	9.12	100.00
MEAN WEIGHT	122.59	134.48	92.33	125.27
% SAMP. WT.	44.11	49.17	6.72	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 25 - NOOTKA SOUND

SAMPLE NUMBERS: 99,326,330, 88,116, 96,340,328

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 27/89 - MAR 5/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	126	368	60	86	89	6	3	0	54	799
% AT AGE	0.00	0.94	16.91	49.40	8.05	11.54	11.95	0.81	0.40	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.71	188.89	208.20	220.67	226.66	232.12	232.67	235.67	0.00	211.44	210.92
- STD. DEV.	0.00	13.30	8.88	9.61	9.59	8.71	7.41	8.59	4.16	0.00	18.89	16.90
WEIGHT - MEAN(gm)	0.00	75.43	98.85	138.87	169.08	189.36	211.74	195.33	204.33	0.00	150.98	149.31
- STD. DEV.	0.00	14.30	17.40	25.87	29.30	30.02	27.48	21.57	18.04	0.00	47.73	43.81

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	62	613	124	0	0	0
% AT STAGE	0.00	0.00	0.00	7.76	76.72	15.52	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	INMATURE	MATURE	SPENT	TOTAL
NO.	55	384	0	439
%	12.53	87.47	0.00	100.00
% SAMPLE WEIGHT	2.69	26.89	0.00	29.58

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	360	439	0	799
%	45.06	54.94	0.00	100.00
MEAN WEIGHT	138.43	158.23	0.00	149.31
% SAMP. WT.	41.77	58.23	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 26 - KYUQUOT SOUND

SAMPLE NUMBERS: 83

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	38	27	7	6	12	1	0	0	9	100
% AT AGE	0.00	0.00	41.76	29.67	7.69	6.59	13.19	1.10	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	191.71	206.96	217.29	232.50	231.67	242.00	0.00	0.00	213.89	207.36
- STD. DEV.	0.00	0.00	7.90	9.80	14.02	4.37	7.74	0.00	0.00	0.00	20.20	18.11
WEIGHT - MEAN(gm)	0.00	0.00	101.63	133.00	153.43	211.17	208.08	250.00	0.00	0.00	155.11	139.37
- STD. DEV.	0.00	0.00	16.30	24.80	42.02	13.20	25.50	0.00	0.00	0.00	53.64	47.79

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	27	63	10	0	0	0
% AT STAGE	0.00	0.00	0.00	27.00	63.00	10.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	19	39	0	58
%	32.76	67.24	0.00	100.00
% SAMPLE WEIGHT	6.61	21.18	0.00	27.79

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	42	58	0	100
%	42.00	58.00	0.00	100.00
MEAN WEIGHT	133.71	143.47	0.00	139.37
% SAMP. WT.	40.30	59.70	0.00	100.00

TABLE 12 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 27 - QUATSINO SOUND

SAMPLE NUMBERS: 114,110,119, 95,108

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 25/89 - MAR 5/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	59	268	38	39	53	6	2	0	30	497
% AT AGE	0.00	0.43	12.63	57.39	8.14	8.35	11.35	1.28	0.43	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.50	190.53	205.93	218.34	227.95	230.28	230.33	242.50	0.00	211.97	210.04
- STD. DEV.	0.00	34.65	8.52	9.69	9.03	6.90	8.30	10.73	7.78	0.00	15.65	15.46
WEIGHT - MEAN(gm)	0.00	71.50	103.88	137.56	177.00	199.36	212.74	197.67	249.50	0.00	154.63	151.39
- STD. DEV.	0.00	40.31	17.33	26.67	28.22	28.19	28.41	38.94	19.09	0.00	41.14	42.86

BJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	82	344	70	0	0	0
% AT STAGE	0.00	0.00	0.20	16.50	69.22	14.08	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	73	183	0	256
%	28.52	71.48	0.00	100.00
% SAMPLE WEIGHT	6.45	22.69	0.00	29.14

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	241	256	0	497
%	48.49	51.51	0.00	100.00
MEAN WEIGHT	139.27	162.79	0.00	151.39
% SAMP. WT.	44.61	55.39	0.00	100.00

TABLE 13 PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 2 - PORT LOUIS

SAMPLE NUMBERS: 204,164

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 12/89 - MAR 18/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	2	155	24	1	1	1	2	1	12	200
% AT AGE	0.00	0.53	1.06	82.45	12.77	0.53	0.53	0.53	1.06	0.53	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.00	206.00	208.46	214.71	228.00	255.00	228.00	239.50	237.00	205.67	209.67
- STD. DEV.	0.00	0.00	1.41	8.16	9.90	0.00	0.00	0.00	4.95	0.00	9.48	10.52
WEIGHT - MEAN(gm)	0.00	51.00	124.00	131.83	147.71	172.00	190.00	152.00	217.00	208.00	123.08	134.55
- STD. DEV.	0.00	0.00	14.14	20.19	24.01	0.00	0.00	0.00	24.04	0.00	25.59	24.75

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	73	110	17	0	0	0
% AT STAGE	0.00	0.00	0.00	36.50	55.00	8.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	67	50	0	117
%	57.26	42.74	0.00	100.00
% SAMPLE WEIGHT	12.03	12.12	0.00	24.15

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	83	117	0	200
%	41.50	58.50	0.00	100.00
MEAN WEIGHT	131.30	136.86	0.00	134.55
% SAMP. WT.	40.50	59.50	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 3 - RENNELL SOUND

SAMPLE NUMBERS: 213,202,203,212,337,209

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 13/89 - APR 2/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	4	433	112	0	1	4	2	7	36	599
% AT AGE	0.00	0.00	0.71	76.91	19.89	0.00	0.18	0.71	0.36	1.24	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	187.25	206.00	217.72	0.00	232.00	242.00	248.00	246.71	208.56	209.12
- STD. DEV.	0.00	0.00	6.70	8.29	8.07	0.00	0.00	12.57	4.24	9.52	16.07	11.53
WEIGHT - MEAN(gm)	0.00	0.00	97.25	131.24	159.36	0.00	197.00	207.25	209.00	220.86	136.50	138.51
- STD. DEV.	0.00	0.00	20.11	20.65	20.46	0.00	0.00	30.36	7.07	20.38	38.40	27.34

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	48	495	52	4	0	0
% AT STAGE	0.00	0.00	0.00	8.01	82.64	8.68	0.67	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	38	255	0	293
%	12.97	87.03	0.00	100.00
% SAMPLE WEIGHT	2.56	23.87	0.00	26.43

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	306	293	0	599
%	51.09	48.91	0.00	100.00
MEAN WEIGHT	129.94	147.46	0.00	138.51
% SAMP. WT.	47.92	52.08	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 5 - ENGLEFIELD BAY

SAMPLE NUMBERS: 210,363,215,208,151

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 16/89 - APR 6/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	36	346	59	5	4	7	6	9	23	499
% AT AGE	0.00	0.84	7.56	72.69	12.39	1.05	0.84	1.47	1.26	1.89	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.50	193.28	206.49	218.69	230.80	232.00	242.71	242.00	243.56	207.04	208.77
- STD. DEV.	0.00	4.43	7.85	8.46	9.60	6.22	10.00	10.40	4.34	7.76	16.20	13.60
WEIGHT - MEAN(gm)	0.00	64.75	100.31	132.30	159.24	182.60	190.00	208.29	218.17	213.33	133.65	137.22
- STD. DEV.	0.00	5.12	15.33	20.51	23.99	27.64	24.01	38.61	24.69	43.09	38.51	31.89

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	1	72	390	34	0	0	0
% AT STAGE	0.00	0.40	0.20	14.43	78.16	6.81	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	60	188	0	248
%	24.19	75.81	0.00	100.00
% SAMPLE WEIGHT	4.50	20.55	0.00	25.05

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	249	248	2	499
%	49.90	49.70	0.40	100.00
MEAN WEIGHT	127.57	147.33	86.50	137.22
% SAMP. WT.	46.39	53.36	0.25	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 6 - LOUSCOONE INLET

SAMPLE NUMBERS: 158,214,194,201,206,205,338,167

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 9/89 - APR 7/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	43	48	653	20	2	3	2	0	0	29	800
% AT AGE	0.00	5.58	6.23	84.70	2.59	0.26	0.39	0.26	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	167.42	190.60	203.91	218.85	214.00	230.67	231.00	0.00	0.00	204.55	201.74
- STD. DEV.	0.00	8.93	8.21	8.78	9.30	8.49	17.90	8.49	0.00	0.00	19.98	13.27
WEIGHT - MEAN(gm)	0.00	61.88	94.81	122.55	154.00	155.00	191.67	194.00	0.00	0.00	125.79	119.05
- STD. DEV.	0.00	11.84	14.70	19.24	24.21	42.43	48.64	32.53	0.00	0.00	45.67	26.63

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	0	59	698	41	0	0	0
% AT STAGE	0.00	0.25	0.00	7.38	87.25	5.13	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	39	375	0	414
%	9.42	90.58	0.00	100.00
% SAMPLE WEIGHT	1.79	23.95	0.00	25.74

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	386	414	0	800
%	48.25	51.75	0.00	100.00
MEAN WEIGHT	112.09	125.54	0.00	119.05
% SAMP. WT.	45.43	54.57	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 21 - JUAN PEREZ SOUND

SAMPLE NUMBERS: 170,155,156,162,161,163,169,157,165,159, 232,207,166,160,233

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 7/89 - MAR 31/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	449	649	57	36	99	68	15	23	86	1500
% AT AGE	0.00	1.27	31.75	45.90	4.03	2.55	7.00	4.81	1.06	1.63	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.00	187.17	198.86	209.81	219.69	226.61	231.35	235.27	239.57	204.90	200.54
- STD. DEV.	0.00	7.64	7.29	8.33	8.82	9.54	8.97	9.90	12.04	9.42	20.44	17.07
WEIGHT - MEAN(gm)	0.00	61.44	91.68	112.51	133.39	156.22	172.65	188.57	199.07	199.61	128.88	118.06
- STD. DEV.	0.00	8.65	12.08	16.02	19.30	20.68	22.13	27.31	38.95	30.56	42.72	35.74

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	4	5	357	1062	70	1	0	0
% AT STAGE	0.07	0.27	0.33	23.80	70.80	4.67	0.07	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	264	491	0	755
%	34.97	65.03	0.00	100.00
% SAMPLE WEIGHT	6.32	17.83	0.00	24.15

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	740	755	5	1500
%	49.33	50.33	0.33	100.00
MEAN WEIGHT	115.69	120.82	54.00	118.06
% SAMP. WT.	48.34	51.51	0.15	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 24 - LASKEEK BAY

SAMPLE NUMBERS: 154,234

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 21/89 - APR 4/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	101	40	21	8	5	9	1	0	0	14	199
% AT AGE	0.00	54.59	21.62	11.35	4.32	2.70	4.86	0.54	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	158.99	182.68	195.38	214.75	211.20	228.44	227.00	0.00	0.00	205.07	177.87
- STD. DEV.	0.00	6.40	9.52	8.32	7.09	5.31	6.09	0.00	0.00	0.00	29.11	24.24
WEIGHT - MEAN(gm)	0.00	50.73	88.15	106.67	146.25	148.20	183.89	160.00	0.00	0.00	132.14	82.74
- STD. DEV.	0.00	7.10	15.92	14.77	20.24	26.37	20.28	0.00	0.00	0.00	57.89	43.48

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	10	40	7	21	119	2	0	0	0
% AT STAGE	5.03	20.10	3.52	10.55	59.80	1.01	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	35	42	0	77
%	45.45	54.55	0.00	100.00
% SAMPLE WEIGHT	1.81	19.19	0.00	21.01

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	94	77	28	199
%	47.24	38.69	14.07	100.00
MEAN WEIGHT	84.74	93.17	47.36	82.74
% SAMP. WT.	48.38	43.57	8.05	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 25 - SKINCUTTLE INLET

SAMPLE NUMBERS: 153,211,168,193,152

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 8/89 - MAR 15/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	63	320	19	13	21	24	6	11	22	500
% AT AGE	0.00	0.21	13.18	66.95	3.97	2.72	4.39	5.02	1.26	2.30	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.00	191.05	202.02	216.21	225.08	235.29	235.63	229.50	243.55	214.45	206.48
- STD. DEV.	0.00	0.00	7.41	8.50	11.17	7.60	7.20	8.34	7.71	8.24	21.02	16.15
WEIGHT - MEAN(gm)	0.00	51.00	99.00	118.58	150.26	170.85	196.14	203.92	181.00	221.27	145.18	130.08
- STD. DEV.	0.00	0.00	11.43	16.89	26.82	18.43	24.75	25.64	29.35	20.36	46.15	36.64

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	58	388	53	1	0	0
% AT STAGE	0.00	0.00	0.00	11.60	77.60	10.60	0.20	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	37	214	1	252
%	14.68	84.92	0.40	100.00
% SAMPLE WEIGHT	2.71	23.18	0.01	25.90

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	248	252	0	500
%	49.60	50.40	0.00	100.00
MEAN WEIGHT	125.67	134.41	0.00	130.08
% SAMP. WT.	47.92	52.08	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 33 - PORT SIMPSON

SAMPLE NUMBERS: 231,244,284,241,239,288,301

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 16/89 - MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	157	181	204	44	31	21	6	0	54	700
% AT AGE	0.00	0.31	24.30	28.02	31.58	6.81	4.80	3.25	0.93	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.50	175.61	191.73	199.90	213.45	217.13	226.33	223.00	0.00	195.09	194.44
- STD. DEV.	0.00	10.61	9.08	8.34	8.99	9.27	7.50	7.75	7.82	0.00	18.17	16.53
WEIGHT - MEAN(gm)	0.00	44.00	73.25	100.17	116.66	137.98	145.10	169.43	162.00	0.00	108.11	106.36
- STD. DEV.	0.00	8.49	12.95	14.45	20.80	18.77	16.93	27.83	25.93	0.00	30.27	30.35

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	149	489	60	2	0	0
% AT STAGE	0.00	0.00	0.00	21.29	69.86	8.57	0.29	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	122	212	2	336
%	36.31	63.10	0.60	100.00
% SAMPLE WEIGHT	7.48	18.53	0.14	26.15

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	364	336	0	700
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	101.27	111.88	0.00	106.36
% SAMP. WT.	49.51	50.49	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 42 - AREA 4 NORTH

SAMPLE NUMBERS: 222,235,228,290,282,281,217,224,218,225

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 21/89 - MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	235	271	282	46	45	41	6	3	69	1000
% AT AGE	0.00	0.21	25.24	29.11	30.29	4.94	4.83	4.40	0.64	0.32	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.50	175.96	189.39	200.00	210.87	214.47	221.24	226.50	240.67	195.22	193.38
- STD. DEV.	0.00	9.19	8.86	8.60	9.24	9.47	7.34	8.58	7.34	12.01	17.69	16.21
WEIGHT - MEAN(gm)	0.00	64.50	74.89	97.09	116.80	134.13	143.13	159.66	164.00	202.67	120.00	106.00
- STD. DEV.	0.00	14.85	12.47	15.92	19.28	19.27	20.22	27.58	20.57	10.50	84.90	36.50

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	2	102	805	78	13	0	0
% AT STAGE	0.00	0.00	0.20	10.20	80.50	7.80	1.30	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	77	403	7	487
%	15.81	82.75	1.44	100.00
% SAMPLE WEIGHT	3.12	23.43	0.03	26.58

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	513	487	0	1000
%	51.30	48.70	0.00	100.00
MEAN WEIGHT	100.73	111.57	0.00	106.00
% SAMP. WT.	48.74	51.26	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 43 - AREA 4 SOUTH

SAMPLE NUMBERS: 243

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 17/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	18	27	10	10	4	1	2	0	21	93
% AT AGE	0.00	0.00	25.00	37.50	13.89	13.89	5.56	1.39	2.78	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	169.56	183.22	200.60	211.30	221.75	229.00	233.00	0.00	192.33	190.74
- STD. DEV.	0.00	0.00	10.34	8.64	11.53	11.79	3.20	0.00	1.41	0.00	20.84	20.50
WEIGHT - MEAN(gm)	0.00	0.00	69.39	87.67	120.50	146.40	159.00	196.00	181.50	0.00	105.14	104.17
- STD. DEV.	0.00	0.00	15.65	16.03	27.91	28.07	7.26	0.00	0.71	0.00	42.08	39.37

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	3	64	24	2	0	0	0
% AT STAGE	0.00	0.00	3.23	68.82	25.81	2.15	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	38	3	0	41
%	92.68	7.32	0.00	100.00
% SAMPLE WEIGHT	11.05	0.69	0.00	11.75

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	51	41	1	93
%	54.84	44.09	1.08	100.00
MEAN WEIGHT	98.61	112.32	54.00	104.17
% SAMP. WT.	51.91	47.53	0.56	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA INLET

SAMPLE NUMBERS: 219,226,287,298,216,220,291,258,286,242, 264,289,283

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 19/89 - APR 6/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	13	239	487	303	49	41	34	3	4	118	1291
% AT AGE	0.00	1.11	20.38	41.52	25.83	4.18	3.50	2.90	0.26	0.34	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.23	176.44	187.34	198.77	208.33	216.34	221.18	222.33	233.75	188.59	190.70
- STD. DEV.	0.00	9.63	8.98	9.72	9.76	8.37	11.85	9.51	6.66	16.30	18.34	15.66
WEIGHT - MEAN(gm)	0.00	56.97	76.52	94.69	115.19	134.96	151.46	162.12	150.33	203.25	99.30	101.75
- STD. DEV.	0.00	10.94	14.10	17.12	20.24	20.93	26.83	31.46	28.01	57.31	30.02	29.20

BJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	79	1113	95	3	0	1
% AT STAGE	0.00	0.00	0.00	6.12	86.21	7.36	0.23	0.00	0.08

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	48	566	1	615
%	7.80	92.03	0.16	100.00
% SAMPLE WEIGHT	1.59	25.77	0.00	27.36

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	674	615	2	1291
%	52.21	47.64	0.15	100.00
MEAN WEIGHT	95.26	109.04	51.00	101.75
% SAMP. WT.	48.87	51.05	0.08	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 67 - LAREDO SOUND

SAMPLE NUMBERS: 185,179,187,200,183,190,182,175,189,191,
188,192,199,196,177,186

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 3/89 - MAR 24/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	17	50	1139	135	46	30	18	10	13	136	1594
% AT AGE	0.00	1.17	3.43	78.12	9.26	3.16	2.06	1.23	0.69	0.89	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.24	178.56	188.88	202.99	214.39	219.70	220.72	226.10	227.00	190.38	191.74
- STD. DEV.	0.00	9.24	11.06	10.28	10.19	9.64	7.44	11.09	13.15	13.17	20.24	14.96
WEIGHT - MEAN(gm)	0.00	50.82	82.62	100.94	126.55	150.39	164.30	166.83	173.60	175.92	107.57	107.00
- STD. DEV.	0.00	10.44	18.01	20.14	23.53	25.90	23.66	31.71	37.98	41.04	39.64	29.59

MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	5	501	1061	24	1	1	0
% AT STAGE	0.00	0.06	0.31	31.43	66.56	1.51	0.06	0.06	0.00

ROE MATURITY (FEMALE):

	INMATURE	MATURE	SPENT	TOTAL
NO.	338	498	2	838
%	40.33	59.43	0.24	100.00
% SAMPLE WEIGHT	8.72	17.62	0.00	26.35

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	755	838	1	1594
%	47.37	52.57	0.06	100.00
MEAN WEIGHT	100.30	113.10	48.00	107.00
% SAMP. WT.	44.40	55.57	0.03	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 72 - POWELL ANCHORAGE

SAMPLE NUMBERS: 198,130,142,123,125

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 9/89 - MAR 16/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	22	330	53	15	17	2	4	5	48	500
% AT AGE	0.00	0.88	4.87	73.01	11.73	3.32	3.76	0.44	0.88	1.11	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.25	178.14	191.17	204.70	214.93	226.65	227.00	238.50	235.20	188.54	194.35
- STD. DEV.	0.00	8.14	10.63	11.59	11.19	11.73	10.84	2.83	6.19	17.85	23.72	17.39
WEIGHT - MEAN(gm)	0.00	47.50	81.18	108.06	136.26	162.80	195.59	192.00	222.50	206.20	106.73	116.11
- STD. DEV.	0.00	13.96	18.19	25.27	29.07	35.11	34.99	7.07	13.50	20.76	46.76	38.39

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	110	368	19	1	0	0
% AT STAGE	0.00	0.20	0.20	22.00	73.60	3.80	0.20	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	74	177	1	252
%	29.37	70.24	0.40	100.00
% SAMPLE WEIGHT	5.93	20.38	0.01	26.33

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	248	252	0	500
%	49.60	50.40	0.00	100.00
MEAN WEIGHT	105.33	126.71	0.00	116.11
% SAMP. WT.	45.00	55.00	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 73 - BELLA BELLA

SAMPLE NUMBERS: 181

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 13/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	6	57	6	3	2	1	0	0	22	99
% AT AGE	0.00	2.60	7.79	74.03	7.79	3.90	2.60	1.30	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	146.50	170.67	194.42	199.50	211.00	230.50	226.00	0.00	0.00	173.05	189.12
- STD. DEV.	0.00	2.12	7.45	12.55	9.59	6.56	3.54	0.00	0.00	0.00	26.51	21.25
WEIGHT - MEAN(gm)	0.00	39.50	70.50	112.91	122.67	150.67	209.00	207.00	0.00	0.00	76.77	105.45
- STD. DEV.	0.00	2.12	16.11	28.75	22.18	22.01	31.11	0.00	0.00	0.00	55.83	44.54

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	3	50	40	2	0	0	0
% AT STAGE	0.00	4.04	3.03	50.51	40.40	2.02	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	30	27	0	57
%	52.63	47.37	0.00	100.00
% SAMPLE WEIGHT	11.45	17.02	0.00	28.47

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	37	57	5	99
%	37.37	57.58	5.05	100.00
MEAN WEIGHT	95.89	117.33	40.80	105.45
% SAMP. WT.	33.98	64.06	1.95	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY

SAMPLE NUMBERS: 227,122,141,221,145,140,128,197,126,139, 178

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 2/89 - MAR 26/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	30	57	687	94	37	40	13	12	17	103	1090
% AT AGE	0.00	3.04	5.78	69.60	9.52	3.75	4.05	1.32	1.22	1.72	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.23	182.35	194.96	209.03	216.38	221.07	229.62	230.58	238.18	195.75	197.85
- STD. DEV.	0.00	6.43	9.18	10.86	11.09	11.18	10.08	11.89	10.48	7.91	21.78	17.05
WEIGHT - MEAN(gm)	0.00	63.70	93.02	116.72	145.22	165.43	177.48	196.62	198.17	213.71	123.36	124.35
- STD. DEV.	0.00	7.92	15.68	23.53	24.51	26.08	31.00	37.39	30.87	18.35	44.18	36.32

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	2	361	681	44	2	0	0
% AT STAGE	0.00	0.00	0.18	33.12	62.48	4.04	0.18	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	256	331	0	587
%	43.61	56.39	0.00	100.00
% SAMPLE WEIGHT	9.63	16.62	0.00	26.25

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	502	587	1	1090
%	46.06	53.85	0.09	100.00
MEAN WEIGHT	118.31	129.35	226.00	124.35
% SAMP. WT.	43.82	56.02	0.17	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 76 - KILDIDT SOUND

SAMPLE NUMBERS: 136

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 13/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	8	58	15	7	2	0	2	0	8	100
% AT AGE	0.00	0.00	8.70	63.04	16.30	7.61	2.17	0.00	2.17	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	181.63	191.71	198.67	203.00	213.50	0.00	223.50	0.00	182.13	193.04
- STD. DEV.	0.00	0.00	14.45	10.11	8.59	6.22	9.19	0.00	16.26	0.00	20.73	13.44
WEIGHT - MEAN(gm)	0.00	0.00	97.50	114.67	127.33	133.14	169.00	0.00	191.00	0.00	102.13	118.10
- STD. DEV.	0.00	0.00	22.79	24.71	22.17	14.69	41.01	0.00	36.77	0.00	36.09	29.05

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	10	87	3	0	0	0
% AT STAGE	0.00	0.00	0.00	10.00	87.00	3.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	8	41	0	49
%	16.33	83.67	0.00	100.00
% SAMPLE WEIGHT	3.30	24.51	0.00	27.82

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	51	49	0	100
%	51.00	49.00	0.00	100.00
MEAN WEIGHT	114.63	121.71	0.00	118.10
% SAMP. WT.	49.50	50.50	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 77 - MILBANKE SOUND

SAMPLE NUMBERS: 174,137,195,173,172,171,180,131

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 10/89 - MAR 22/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	25	600	65	14	17	1	9	4	57	796
% AT AGE	0.00	0.54	3.38	81.19	8.80	1.89	2.30	0.14	1.22	0.54	0.00	100.00
LENGTH - MEAN(mm)	0.00	154.00	176.56	186.21	202.02	210.29	222.82	223.00	227.56	229.25	187.18	189.04
- STD. DEV.	0.00	9.45	10.37	9.85	10.62	8.52	10.30	0.00	5.46	21.70	17.54	14.24
WEIGHT - MEAN(gm)	0.00	49.00	83.32	98.49	129.48	145.93	180.76	192.00	167.11	180.50	101.49	104.41
- STD. DEV.	0.00	10.10	15.75	18.09	23.45	28.89	28.22	0.00	26.54	70.47	33.89	27.95

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	2	102	648	43	1	0	0
% AT STAGE	0.00	0.00	0.25	12.81	81.41	5.40	0.13	0.00	0.00

BOR MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	97	284	0	381
%	25.46	74.54	0.00	100.00
% SAMPLE WEIGHT	5.79	21.52	0.00	27.31

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	415	381	0	796
%	52.14	47.86	0.00	100.00
MEAN WEIGHT	97.11	112.35	0.00	104.41
% SAMP. WT.	48.49	51.51	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 78 - DON PENINSULA

SAMPLE NUMBERS: 184,176

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 17/89 - MAR 18/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	2	94	21	13	6	1	0	0	52	189
% AT AGE	0.00	0.00	1.46	68.61	15.33	9.49	4.38	0.73	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	168.00	186.89	197.57	196.46	212.00	207.00	0.00	0.00	178.85	187.23
- STD. DEV.	0.00	0.00	4.24	13.41	16.19	11.29	16.57	0.00	0.00	0.00	20.98	17.74
WEIGHT - MEAN(gm)	0.00	0.00	69.00	99.45	120.00	112.85	154.83	160.00	0.00	0.00	85.19	100.49
- STD. DEV.	0.00	0.00	15.56	25.97	33.65	29.33	41.90	0.00	0.00	0.00	41.96	35.73

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	11	83	93	2	0	0	0
% AT STAGE	0.00	0.00	5.82	43.92	49.21	1.06	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	68	48	0	116
%	58.62	41.38	0.00	100.00
% SAMPLE WEIGHT	7.38	15.68	0.00	23.06

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	73	116	0	189
%	38.62	61.38	0.00	100.00
MEAN WEIGHT	98.89	101.49	0.00	100.49
% SAMP. WT.	38.01	61.99	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 85 - KWAKSHUA CHANNEL

SAMPLE NUMBERS: 149,135,343,146,132,362

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 2/89 - APR 6/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	39	412	43	33	19	2	3	2	40	600
% AT AGE	0.00	1.25	6.96	73.57	7.68	5.89	3.39	0.36	0.54	0.36	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.29	175.10	186.07	196.44	204.85	213.79	215.00	220.33	229.50	195.15	188.68
- STD. DEV.	0.00	7.11	10.30	11.01	11.80	10.80	11.73	8.49	6.66	10.61	18.22	14.70
WEIGHT - MEAN(gm)	0.00	51.71	73.97	92.72	111.05	131.94	147.79	155.50	158.67	185.00	110.90	98.29
- STD. DEV.	0.00	10.36	13.63	18.86	24.18	28.00	32.22	12.02	24.68	76.37	34.29	27.60

MJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	0	247	290	30	31	0	0
% AT STAGE	0.17	0.17	0.00	41.17	48.33	5.00	5.17	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	163	92	13	268
%	60.82	34.33	4.85	100.00
% SAMPLE WEIGHT	14.31	8.75	0.06	23.12

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	329	268	3	600
%	54.83	44.67	0.50	100.00
MEAN WEIGHT	93.54	104.61	54.67	98.29
% SAMP. WT.	52.18	47.54	0.28	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 92 - RIVERS INLET MOUTH

SAMPLE NUMBERS: 351

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: APR 5/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	9	63	9	2	3	0	0	0	13	100
% AT AGE	0.00	1.15	10.34	72.41	10.34	2.30	3.45	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.00	166.44	173.86	194.67	212.50	200.00	0.00	0.00	0.00	174.62	176.63
- STD. DEV.	0.00	0.00	14.02	11.73	11.82	7.78	1.73	0.00	0.00	0.00	20.23	15.87
WEIGHT - MEAN(gm)	0.00	66.00	70.78	74.43	104.00	144.00	121.00	0.00	0.00	0.00	72.46	79.21
- STD. DEV.	0.00	0.00	22.48	16.95	24.62	18.38	17.58	0.00	0.00	0.00	25.82	24.14

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	0	3	79	10	7	0	0
% AT STAGE	1.00	0.00	0.00	3.00	79.00	10.00	7.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	43	4	48
%	2.08	89.58	8.33	100.00
% SAMPLE WEIGHT	0.32	24.35	0.10	24.77

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	51	48	1	100
%	51.00	48.00	1.00	100.00
MEAN WEIGHT	75.06	83.94	64.00	79.21
% SAMP. WT.	48.33	50.86	0.81	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 102 - TAKUSH HARBOUR

SAMPLE NUMBERS: 240,354

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: APR 2/89 - APR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	12	100	40	6	5	0	1	1	30	200
% AT AGE	0.00	2.94	7.06	58.82	23.53	3.53	2.94	0.00	0.59	0.59	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.40	175.75	178.24	185.30	198.33	200.40	0.00	237.00	225.00	181.40	181.12
- STD. DEV.	0.00	5.59	11.30	13.49	10.90	14.65	8.20	0.00	0.00	0.00	19.87	15.94
WEIGHT - MEAN(gm)	0.00	50.20	79.25	84.99	97.00	119.50	120.60	0.00	208.00	192.00	93.17	90.48
- STD. DEV.	0.00	5.67	16.52	22.21	21.21	26.52	26.34	0.00	0.00	0.00	32.15	27.82

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	13	183	3	0	0	0
% AT STAGE	0.00	0.50	0.00	6.50	91.50	1.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	3	123	0	126
%	2.38	97.62	0.00	100.00
% SAMPLE WEIGHT	0.38	25.59	0.00	25.97

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	74	126	0	200
%	37.00	63.00	0.00	100.00
MEAN WEIGHT	82.97	94.89	0.00	90.48
% SAMP. WT.	33.93	66.07	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 112 - SEYMOUR INLET

SAMPLE NUMBERS: 237

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: APR 1/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	72	10	2	0	0	0	0	0	0	16	100
% AT AGE	0.00	85.71	11.90	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	105.99	121.60	127.00	0.00	0.00	0.00	0.00	0.00	0.00	100.69	107.12
- STD. DEV.	0.00	6.98	5.48	1.41	0.00	0.00	0.00	0.00	0.00	0.00	5.70	8.91
WEIGHT - MEAN(gm)	0.00	14.29	20.70	25.50	0.00	0.00	0.00	0.00	0.00	0.00	11.69	14.74
- STD. DEV.	0.00	3.23	3.50	2.12	0.00	0.00	0.00	0.00	0.00	0.00	2.60	4.16

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	44	52	2	0	0	0	0
% AT STAGE	1.00	1.00	44.00	52.00	2.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	56	0	0	56
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	6.72	0.00	0.00	6.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	43	56	1	100
%	43.00	56.00	1.00	100.00
MEAN WEIGHT	14.33	15.14	10.00	14.74
% SAMP. WT.	41.79	57.53	0.68	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 123 - WEST CRACROFT ISLAND

SAMPLE NUMBERS: 352,350,353

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 22/89 - MAR 23/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	23	67	70	14	0	0	0	0	0	25	199
% AT AGE	0.00	13.22	38.51	40.23	8.05	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.17	178.60	186.34	198.64	0.00	0.00	0.00	0.00	0.00	180.72	180.29
- STD. DEV.	0.00	10.25	7.66	10.81	7.03	0.00	0.00	0.00	0.00	0.00	12.17	14.29
WEIGHT - MEAN(gm)	0.00	48.00	77.37	89.66	110.14	0.00	0.00	0.00	0.00	0.00	80.40	80.98
- STD. DEV.	0.00	9.94	10.72	16.51	12.19	0.00	0.00	0.00	0.00	0.00	15.56	20.02

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	6	59	90	37	0	0	0	6
% AT STAGE	0.50	3.02	29.65	45.23	18.59	0.00	0.00	0.00	3.02

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	102	10	0	112
%	91.07	8.93	0.00	100.00
% SAMPLE WEIGHT	9.19	2.20	0.00	11.39

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	76	112	11	199
%	38.19	56.28	5.53	100.00
MEAN WEIGHT	80.66	83.88	53.73	80.98
% SAMP. WT.	38.04	58.30	3.67	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 124 - WELLS PASSAGE

SAMPLE NUMBERS: 355

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	1	72	15	2	2	0	0	0	0	0	8	100
% AT AGE	1.09	78.26	16.30	2.17	2.17	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	100.00	114.19	120.73	123.00	127.50	0.00	0.00	0.00	0.00	0.00	114.50	115.50
- STD. DEV.	0.00	6.12	3.13	1.41	9.19	0.00	0.00	0.00	0.00	0.00	5.68	6.58
WEIGHT - MEAN(gm)	11.00	17.60	21.00	20.50	22.50	0.00	0.00	0.00	0.00	0.00	17.50	18.19
- STD. DEV.	0.00	3.12	2.51	4.95	0.71	0.00	0.00	0.00	0.00	0.00	2.33	3.31

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	9	12	63	9	0	0	0	7
% AT STAGE	0.00	9.00	12.00	63.00	9.00	0.00	0.00	0.00	7.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	35	0	0	35
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	8.76	0.00	0.00	8.76

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	49	35	16	100
%	49.00	35.00	16.00	100.00
MEAN WEIGHT	18.43	18.26	17.31	18.19
% SAMP. WT.	49.64	35.13	15.23	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 125 - GILFORD ISLAND

SAMPLE NUMBERS: 346,344,238

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 25/89 - MAR 26/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	2	126	10	124	6	2	3	0	0	0	26	299
% AT AGE	0.73	46.15	3.66	45.42	2.20	0.73	1.10	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	107.00	145.11	144.50	161.47	148.83	185.50	190.67	0.00	0.00	0.00	150.31	152.87
- STD. DEV.	2.83	8.38	15.87	17.47	18.48	4.95	4.51	0.00	0.00	0.00	20.24	17.28
WEIGHT - MEAN(gm)	14.00	37.12	40.40	64.00	45.67	105.50	113.00	0.00	0.00	0.00	50.46	50.77
- STD. DEV.	0.00	7.29	18.08	23.72	21.18	4.95	8.19	0.00	0.00	0.00	28.28	23.74

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	34	64	6	31	100	23	17	0	24
% AT STAGE	11.37	21.40	2.01	10.37	33.44	7.69	5.69	0.00	8.03

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	55	53	6	114
%	48.25	46.49	5.26	100.00
% SAMPLE WEIGHT	1.22	17.67	0.11	19.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	105	114	80	299
%	35.12	38.13	26.76	100.00
MEAN WEIGHT	54.64	58.32	34.95	50.77
% SAMP. WT.	37.79	43.79	18.42	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 126 - KINGCOME INLET

SAMPLE NUMBERS: 358

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 27/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	34	11	6	1	0	0	0	0	0	48	100
% AT AGE	0.00	65.38	21.15	11.54	1.92	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	132.38	138.55	132.50	135.00	0.00	0.00	0.00	0.00	0.00	128.56	131.26
- STD. DEV.	0.00	10.40	25.65	5.47	0.00	0.00	0.00	0.00	0.00	0.00	9.34	12.47
WEIGHT - MEAN(gm)	0.00	29.44	30.18	33.33	34.00	0.00	0.00	0.00	0.00	0.00	27.75	28.99
- STD. DEV.	0.00	7.10	8.95	3.14	0.00	0.00	0.00	0.00	0.00	0.00	6.04	6.72

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	12	23	12	20	26	0	0	0	7
% AT STAGE	12.00	23.00	12.00	20.00	26.00	0.00	0.00	0.00	7.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	37	1	0	38
%	97.37	2.63	0.00	100.00
% SAMPLE WEIGHT	5.54	0.79	0.00	6.33

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	33	38	29	100
%	33.00	38.00	29.00	100.00
MEAN WEIGHT	28.70	29.92	28.10	28.99
% SAMP. WT.	32.67	39.22	28.11	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 127 - KNIGHT INLET

SAMPLE NUMBERS: 345,236,356

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 24/89 - MAR 25/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	12	182	11	19	35	1	0	3	29	300
% AT AGE	0.00	2.95	4.43	67.16	4.06	7.01	12.92	0.37	0.00	1.11	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.25	173.42	164.73	178.27	184.37	185.34	195.00	0.00	200.67	171.17	170.00
- STD. DEV.	0.00	15.75	15.42	9.81	13.49	11.71	10.17	0.00	0.00	4.51	20.37	14.75
WEIGHT - MEAN(gm)	0.00	45.13	67.08	53.77	67.09	77.11	76.37	86.00	0.00	92.67	60.24	59.80
- STD. DEV.	0.00	13.80	21.20	11.61	16.87	17.82	13.18	0.00	0.00	10.12	22.24	17.16

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	2	17	4	275	1	0
% AT STAGE	0.00	0.33	0.00	0.67	5.67	1.33	91.67	0.33	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	3	8	135	146
%	2.05	5.48	92.47	100.00
% SAMPLE WEIGHT	0.31	1.73	1.66	3.70

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	152	146	2	300
%	50.67	48.67	0.67	100.00
MEAN WEIGHT	57.63	62.18	51.00	59.80
% SAMP. WT.	48.83	50.60	0.57	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 135 - CAPE MUDGE

SAMPLE NUMBERS: 121

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 14/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	9	35	44	2	1	1	0	0	0	8	100
% AT AGE	0.00	9.78	38.04	47.83	2.17	1.09	1.09	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.67	175.60	186.75	200.00	208.00	227.00	0.00	0.00	0.00	185.50	180.83
- STD. DEV.	0.00	7.73	10.90	13.36	9.90	0.00	0.00	0.00	0.00	0.00	18.09	16.38
WEIGHT - MEAN(gm)	0.00	44.11	64.49	78.32	98.00	116.00	169.00	0.00	0.00	0.00	77.50	72.01
- STD. DEV.	0.00	7.90	12.36	19.84	0.00	0.00	0.00	0.00	0.00	0.00	22.03	22.41

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	2	9	38	4	46	0	0
% AT STAGE	0.00	1.00	2.00	9.00	38.00	4.00	46.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	9	23	15	47
%	19.15	48.94	31.91	100.00
% SAMPLE WEIGHT	2.90	8.63	0.82	12.34

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	52	47	1	100
%	52.00	47.00	1.00	100.00
MEAN WEIGHT	68.69	75.68	72.00	72.01
% SAMP. WT.	49.60	49.40	1.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 136 - REED ISLAND

SAMPLE NUMBERS: 39

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 2/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	13	25	48	5	1	1	0	0	0	7	100
% AT AGE	0.00	13.98	26.88	51.61	5.38	1.08	1.08	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	157.54	175.32	185.15	196.80	202.00	197.00	0.00	0.00	0.00	177.14	179.41
- STD. DEV.	0.00	5.61	9.41	11.90	6.30	0.00	0.00	0.00	0.00	0.00	9.03	14.35
WEIGHT - MEAN(gm)	0.00	47.00	67.20	81.73	103.00	101.00	92.00	0.00	0.00	0.00	74.14	74.41
- STD. DEV.	0.00	7.82	11.81	18.86	9.87	0.00	0.00	0.00	0.00	0.00	13.75	20.37

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	1	1	70	25	2	0	0	0
% AT STAGE	1.00	1.00	1.00	70.00	25.00	2.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	39	5	0	44
%	88.64	11.36	0.00	100.00
% SAMPLE WEIGHT	14.80	2.50	0.00	17.30

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	55	44	1	100
%	55.00	44.00	1.00	100.00
MEAN WEIGHT	72.71	77.23	44.00	74.41
% SAMP. WT.	53.74	45.67	0.59	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND

SAMPLE NUMBERS: 48, 40, 25, 32, 45, 21, 3, 30, 46, 20,
12, 18, 27, 7, 35, 19, 6, 11, 37

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 24/89 - MAR 13/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	176	284	863	176	138	32	6	2	0	221	1898
% AT AGE	0.00	10.49	16.94	51.46	10.49	8.23	1.91	0.36	0.12	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.82	186.04	200.87	209.35	213.36	219.06	219.83	221.00	0.00	195.37	197.21
- STD. DEV.	0.00	9.41	12.08	10.90	9.98	9.22	9.57	7.57	5.66	0.00	16.98	16.49
WEIGHT - MEAN(gm)	0.00	63.50	87.04	113.08	129.87	139.73	150.19	149.00	158.00	0.00	106.33	108.08
- STD. DEV.	0.00	13.29	22.69	23.96	24.77	26.94	25.56	34.15	12.73	0.00	32.30	31.86

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	17	21	277	1039	240	302	2	0
% AT STAGE	0.00	0.90	1.11	14.59	54.74	12.64	15.91	0.11	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	210	674	113	997
%	21.06	67.60	11.33	100.00
% SAMPLE WEIGHT	3.89	18.44	0.22	22.55

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	889	997	12	1898
%	46.84	52.53	0.63	100.00
MEAN WEIGHT	101.79	114.29	58.00	108.08
% SAMP. WT.	44.11	55.55	0.34	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 152 - POWELL RIVER

SAMPLE NUMBERS: 22, 13, 36, 50, 26, 42, 34, 17, 33, 29, 28,143, 38, 14,150, 23,334, 31, 16, 24, 15,129

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 26/89 - MAR 13/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	1	84	424	1099	136	112	39	9	0	0	291	2195
% AT AGE	0.05	4.41	22.27	57.72	7.14	5.88	2.05	0.47	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	104.00	156.30	178.43	190.09	200.65	206.30	210.77	214.56	0.00	0.00	188.20	188.20
- STD. DEV.	0.00	11.78	9.02	10.78	10.61	10.13	8.05	6.06	0.00	0.00	15.91	15.05
WEIGHT - MEAN(gm)	11.00	49.52	73.63	90.11	109.12	119.42	130.64	144.11	0.00	0.00	88.45	88.73
- STD. DEV.	0.00	10.44	13.36	19.14	21.31	21.59	19.56	17.29	0.00	0.00	24.82	24.23

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	17	5	269	1286	345	268	0	2
% AT STAGE	0.14	0.77	0.23	12.26	58.59	15.72	12.21	0.00	0.09

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	235	808	99	1142
%	20.58	70.75	8.67	100.00
% SAMPLE WEIGHT	3.38	16.70	0.15	20.23

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1013	1142	40	2195
%	46.15	52.03	1.82	100.00
MEAN WEIGHT	85.02	92.79	66.68	88.73
% SAMP. WT.	44.22	54.41	1.37	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 162 - HOTHAM SOUND

SAMPLE NUMBERS: 124,133

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 13/89 - MAR 16/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	55	103	3	5	1	0	0	0	27	200
% AT AGE	0.00	3.47	31.79	59.54	1.73	2.89	0.58	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.17	176.38	187.50	203.33	211.20	212.00	0.00	0.00	0.00	180.19	183.55
- STD. DEV.	0.00	14.76	8.90	11.69	13.87	10.13	0.00	0.00	0.00	0.00	12.11	13.82
WEIGHT - MEAN(gm)	0.00	47.50	63.33	73.77	95.33	107.20	102.00	0.00	0.00	0.00	67.00	70.50
- STD. DEV.	0.00	9.77	11.62	15.47	25.32	14.82	0.00	0.00	0.00	0.00	12.18	16.66

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	0	4	15	8	172	0	0
% AT STAGE	0.00	0.50	0.00	2.00	7.50	4.00	86.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	4	11	56	71
%	5.63	15.49	78.87	100.00
% SAMPLE WEIGHT	1.02	3.39	1.71	6.13

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	118	71	11	200
%	59.00	35.50	5.50	100.00
MEAN WEIGHT	68.00	75.63	64.09	70.50
% SAMP. WT.	56.91	38.09	5.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 172 - NANOOSE BAY

SAMPLE NUMBERS: 43

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 12/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	12	46	8	5	0	0	0	0	15	100
% AT AGE	0.00	16.47	14.12	54.12	9.41	5.88	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	176.50	193.92	201.22	211.50	222.00	0.00	0.00	0.00	0.00	199.67	198.51
- STD. DEV.	0.00	7.82	10.26	9.73	6.91	7.31	0.00	0.00	0.00	0.00	12.66	14.39
WEIGHT - MEAN(gm)	0.00	73.00	102.67	109.17	124.38	149.80	0.00	0.00	0.00	0.00	114.87	107.43
- STD. DEV.	0.00	6.87	20.90	20.24	23.40	21.63	0.00	0.00	0.00	0.00	33.34	27.38

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	1	75	2	21	0	0
% AT STAGE	0.00	0.00	1.00	1.00	75.00	2.00	21.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	31	5	37
%	2.70	83.78	13.51	100.00
% SAMPLE WEIGHT	0.02	22.20	0.24	22.46

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	63	37	0	100
%	63.00	37.00	0.00	100.00
MEAN WEIGHT	104.44	112.51	0.00	107.43
% SAMP. WT.	61.25	38.75	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT

SAMPLE NUMBERS: 2, 4, 47, 44, 41, 5, 49, 8, 10, 1

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 28, 89 - MAR 11/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	203	144	408	82	54	5	1	0	0	103	1000
% AT AGE	0.00	22.63	16.05	45.48	9.14	6.02	0.56	0.11	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.73	184.01	201.25	211.35	218.74	228.00	220.00	0.00	0.00	190.38	192.97
- STD. DEV.	0.00	10.41	12.51	10.05	8.38	8.93	12.43	0.00	0.00	0.00	20.99	19.27
WEIGHT - MEAN(gm)	0.00	62.10	85.26	112.70	131.10	148.98	174.40	151.00	0.00	0.00	97.96	100.78
- STD. DEV.	0.00	13.29	18.50	20.96	19.81	22.63	35.73	0.00	0.00	0.00	34.99	32.88

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	16	8	480	411	58	24	0	0
% AT STAGE	0.30	1.60	0.80	48.00	41.10	5.80	2.40	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	270	229	10	509
%	53.05	44.99	1.96	100.00
% SAMPLE WEIGHT	10.30	13.24	0.03	23.58

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	479	509	12	1000
%	47.90	50.90	1.20	100.00
MEAN WEIGHT	95.54	106.87	50.83	100.78
% SAMP. WT.	45.41	53.98	0.61	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 181 - SWANSON CHANNEL

SAMPLE NUMBERS: 9

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	41	13	26	5	6	0	0	0	0	9	100
% AT AGE	0.00	45.05	14.29	28.57	5.49	6.59	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.29	187.15	197.46	208.00	218.33	0.00	0.00	0.00	0.00	186.44	183.72
- STD. DEV.	0.00	9.06	13.05	9.52	4.90	11.86	0.00	0.00	0.00	0.00	12.88	19.82
WEIGHT - MEAN(gm)	0.00	57.68	94.15	112.58	135.80	148.67	0.00	0.00	0.00	0.00	92.56	89.20
- STD. DEV.	0.00	12.37	19.60	19.11	7.16	30.43	0.00	0.00	0.00	0.00	25.68	34.44

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	0	32	64	0	1	0	0
% AT STAGE	0.00	3.00	0.00	32.00	64.00	0.00	1.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	13	30	1	44
%	29.55	68.18	2.27	100.00
% SAMPLE WEIGHT	3.53	18.38	0.05	21.95

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	53	44	3	100
%	53.00	44.00	3.00	100.00
MEAN WEIGHT	90.66	90.91	38.33	89.20
% SAMP. WT.	53.87	44.84	1.29	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS

SAMPLE NUMBERS: 98,138,134,112, 63, 92,111, 94,101, 87,
84,102, 89,115,104, 97, 82,103, 90, 85,
107, 62,117,105,109, 91, 86, 93, 81,100,
147

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 25/89 - MAR 19/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	98	441	1722	162	203	91	22	3	1	357	3100
% AT AGE	0.00	3.57	16.08	62.78	5.91	7.40	3.32	0.80	0.11	0.04	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.17	188.26	203.41	213.60	221.38	229.02	235.36	229.67	243.00	202.81	202.70
- STD. DEV.	0.00	10.21	8.96	8.91	9.09	9.62	9.09	7.84	8.51	0.00	17.89	15.54
WEIGHT - MEAN(gm)	0.00	63.48	97.92	125.81	145.90	165.23	174.62	191.32	194.00	219.00	125.41	125.45
- STD. DEV.	0.00	12.28	16.26	20.07	22.34	27.12	26.05	22.47	39.95	0.00	34.99	31.12

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	2	231	2587	262	14	0	1
% AT STAGE	0.00	0.10	0.06	7.45	83.45	8.45	0.45	0.00	0.03

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	125	1441	3	1569
%	7.97	91.84	0.19	100.00
% SAMPLE WEIGHT	1.80	26.51	0.00	28.32

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1529	1569	2	3100
%	49.32	50.61	0.06	100.00
MEAN WEIGHT	116.93	133.79	96.50	125.45
% SAMP. WT.	45.97	53.98	0.05	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 233 - IMPERIAL EAGLE CHANNEL

SAMPLE NUMBERS: 144

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 27/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	12	50	8	12	3	0	0	0	13	100
% AT AGE	0.00	2.30	13.79	57.47	9.20	13.79	3.45	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.50	186.50	206.98	210.38	226.75	229.00	0.00	0.00	0.00	211.85	207.57
- STD. DEV.	0.00	0.71	9.05	8.23	10.18	7.77	1.00	0.00	0.00	0.00	9.86	15.00
WEIGHT - MEAN(gm)	0.00	57.50	92.33	128.02	139.25	169.33	177.00	0.00	0.00	0.00	131.62	130.12
- STD. DEV.	0.00	4.95	17.24	19.11	30.28	29.58	18.19	0.00	0.00	0.00	21.22	31.29

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	48	40	12	0	0	0
% AT STAGE	0.00	0.00	0.00	48.00	40.00	12.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	33	20	0	53
%	62.26	37.74	0.00	100.00
% SAMPLE WEIGHT	16.14	10.71	0.00	26.85

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	47	53	0	100
%	47.00	53.00	0.00	100.00
MEAN WEIGHT	120.77	138.42	0.00	130.12
% SAMP. WT.	43.62	56.38	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 243 - SYDNEY INLET

SAMPLE NUMBERS: 106,300,148,342,113,245,347,339,127,120

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 28/89 - MAR 14/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	179	563	69	64	30	3	0	0	69	996
% AT AGE	0.00	2.05	19.31	60.73	7.44	6.90	3.24	0.32	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.47	188.98	204.96	214.52	226.25	228.67	236.33	0.00	0.00	201.78	204.03
- STD. DEV.	0.00	9.69	8.34	8.82	9.20	8.11	8.29	8.51	0.00	0.00	18.82	14.82
WEIGHT - MEAN(gm)	0.00	68.05	94.92	125.25	144.62	177.08	177.87	213.33	0.00	0.00	120.87	124.92
- STD. DEV.	0.00	9.50	14.94	22.34	22.27	23.31	18.37	24.44	0.00	0.00	41.03	32.44

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	2	123	586	101	156	1	24
% AT STAGE	0.00	0.30	0.20	12.35	58.84	10.14	15.66	0.10	2.41

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	101	322	28	451
%	22.39	71.40	6.21	100.00
% SAMPLE WEIGHT	3.95	22.40	0.08	26.42

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	446	451	99	996
%	44.78	45.28	9.94	100.00
MEAN WEIGHT	122.61	134.35	92.41	124.92
% SAMP. WT.	43.95	48.70	7.35	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 244 - MILLER CHANNEL

SAMPLE NUMBERS: 361

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 26/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	9	64	9	8	3	0	0	0	7	100
% AT AGE	0.00	0.00	9.68	68.82	9.68	8.60	3.23	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	190.00	206.36	216.89	229.00	224.67	0.00	0.00	0.00	216.43	208.90
- STD. DEV.	0.00	0.00	6.89	8.21	5.16	3.63	6.66	0.00	0.00	0.00	10.61	12.01
WEIGHT - MEAN(gm)	0.00	0.00	93.56	124.02	149.22	162.13	160.00	0.00	0.00	0.00	139.71	128.77
- STD. DEV.	0.00	0.00	16.47	18.35	12.33	11.29	7.81	0.00	0.00	0.00	18.20	23.92

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	50	45	4	0	0	1
% AT STAGE	0.00	0.00	0.00	50.00	45.00	4.00	0.00	0.00	1.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	42	9	0	51
%	82.35	17.65	0.00	100.00
% SAMPLE WEIGHT	19.65	4.60	0.00	24.25

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	48	51	1	100
%	48.00	51.00	1.00	100.00
MEAN WEIGHT	122.44	135.61	84.00	128.77
% SAMP. WT.	45.64	53.71	0.65	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 252 - NOOTKA SOUND

SAMPLE NUMBERS: 99, 96

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 4/89 - MAR 5/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	28	113	15	17	10	0	0	0	14	200
% AT AGE	0.00	1.61	15.05	60.75	8.06	9.14	5.38	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.00	189.00	206.58	213.67	225.06	227.20	0.00	0.00	0.00	195.50	205.85
- STD. DEV.	0.00	15.62	8.25	8.22	9.87	7.50	4.54	0.00	0.00	0.00	17.74	14.65
WEIGHT - MEAN(gm)	0.00	66.00	101.18	132.12	144.60	178.82	189.10	0.00	0.00	0.00	107.86	132.85
- STD. DEV.	0.00	13.08	12.52	21.83	23.88	27.96	17.79	0.00	0.00	0.00	26.26	32.50

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	8	167	25	0	0	0
% AT STAGE	0.00	0.00	0.00	4.00	83.50	12.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	6	89	0	95
%	6.32	93.68	0.00	100.00
% SAMPLE WEIGHT	1.49	27.93	0.00	29.42

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	105	95	0	200
%	52.50	47.50	0.00	100.00
MEAN WEIGHT	127.06	139.25	0.00	132.85
% SAMP. WT.	50.21	49.79	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 253 - ESPERANZA INLET

SAMPLE NUMBERS: 340,328,326,330, 88,116

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 27/89 - MAR 3/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	98	255	45	69	79	6	3	0	40	599
% AT AGE	0.00	0.72	17.53	45.62	8.05	12.34	14.13	1.07	0.54	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.00	188.86	208.92	223.00	227.06	232.75	232.67	235.67	0.00	217.02	212.61
- STD. DEV.	0.00	11.58	9.10	10.10	8.37	8.99	7.49	8.59	4.16	0.00	16.03	17.27
WEIGHT - MEAN(gm)	0.00	82.50	98.18	141.86	177.24	191.96	214.61	195.33	204.33	0.00	166.07	154.81
- STD. DEV.	0.00	11.82	18.57	26.97	26.41	30.13	27.23	21.57	18.04	0.00	44.33	45.70

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	54	446	99	0	0	0
% AT STAGE	0.00	0.00	0.00	9.02	74.46	16.53	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	INMATURE	MATURE	SPENT	TOTAL
NO.	49	295	0	344
%	14.24	85.76	0.00	100.00
% SAMPLE WEIGHT	2.97	26.65	0.00	29.62

SEX RATIO:

	MALE	FEMALE	INMATURE	TOTAL
NO.	255	344	0	599
%	42.57	57.43	0.00	100.00
MEAN WEIGHT	143.11	163.48	0.00	154.81
% SAMP. WT.	39.35	60.65	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 261 - OTHER AREA 26

SAMPLE NUMBERS: 83

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 28/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	38	27	7	6	12	1	0	0	9	100
% AT AGE	0.00	0.00	41.76	29.67	7.69	6.59	13.19	1.10	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	191.71	206.96	217.29	232.50	231.67	242.00	0.00	0.00	213.89	207.36
- STD. DEV.	0.00	0.00	7.90	9.80	14.02	4.37	7.74	0.00	0.00	0.00	20.20	18.11
WEIGHT - MEAN(gm)	0.00	0.00	101.63	133.00	153.43	211.17	208.08	250.00	0.00	0.00	155.11	139.37
- STD. DEV.	0.00	0.00	16.30	24.80	42.02	13.20	25.50	0.00	0.00	0.00	53.64	47.79

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	27	63	10	0	0	0
% AT STAGE	0.00	0.00	0.00	27.00	63.00	10.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	19	39	0	58
%	32.76	67.24	0.00	100.00
% SAMPLE WEIGHT	6.61	21.18	0.00	27.79

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	42	58	0	100
%	42.00	58.00	0.00	100.00
MEAN WEIGHT	133.71	143.47	0.00	139.37
% SAMP. WT.	40.30	59.70	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 272 - BROOKS BAY

SAMPLE NUMBERS: 114,110,119

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: MAR 4/89 - MAR 5/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	23	149	31	32	44	5	2	0	11	297
% AT AGE	0.00	0.00	8.04	52.10	10.84	11.19	15.38	1.75	0.70	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	196.35	209.03	219.94	228.19	231.25	232.60	242.50	0.00	213.09	215.32
- STD. DEV.	0.00	0.00	6.65	8.80	8.45	6.87	7.27	10.26	7.78	0.00	15.16	13.68
WEIGHT - MEAN(gm)	0.00	0.00	115.13	147.38	181.19	200.19	218.64	206.40	249.50	0.00	159.55	166.79
- STD. DEV.	0.00	0.00	13.57	24.33	27.46	28.43	24.89	36.38	19.09	0.00	47.38	40.86

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	14	229	53	0	0	0
% AT STAGE	0.00	0.00	0.34	4.71	77.10	17.85	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	11	148	0	159
%	6.92	93.08	0.00	100.00
% SAMPLE WEIGHT	1.45	28.73	0.00	30.18

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	138	159	0	297
%	46.46	53.54	0.00	100.00
MEAN WEIGHT	155.89	176.25	0.00	166.79
% SAMP. WT.	43.43	56.57	0.00	100.00

TABLE 13 (CONT'D) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 273 - FORWARD INLET

SAMPLE NUMBERS: 95,108

SOURCE: PRE-FISHERY CHARTER

GEAR: HERRING SEINE

DATE: FEB 25/89 - MAR 2/89

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	36	119	7	7	9	1	0	0	19	200
% AT AGE	0.00	1.10	19.89	65.75	3.87	3.87	4.97	0.55	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.50	186.81	202.05	211.29	226.86	225.56	219.00	0.00	0.00	211.32	202.20
- STD. DEV.	0.00	34.65	7.48	9.38	8.67	7.49	11.54	0.00	0.00	0.00	16.30	14.60
WEIGHT - MEAN(gm)	0.00	71.50	96.69	125.28	158.43	195.57	183.89	154.00	0.00	0.00	151.79	128.51
- STD. DEV.	0.00	40.31	15.68	24.35	25.44	28.94	28.13	0.00	0.00	0.00	38.16	34.88

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	68	115	17	0	0	0
% AT STAGE	0.00	0.00	0.00	34.00	57.50	8.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	62	35	0	97
%	63.92	36.08	0.00	100.00
% SAMPLE WEIGHT	16.73	10.28	0.00	27.01

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	103	97	0	200
%	51.50	48.50	0.00	100.00
MEAN WEIGHT	117.00	140.74	0.00	128.51
% SAMP. WT.	46.89	53.11	0.00	100.00

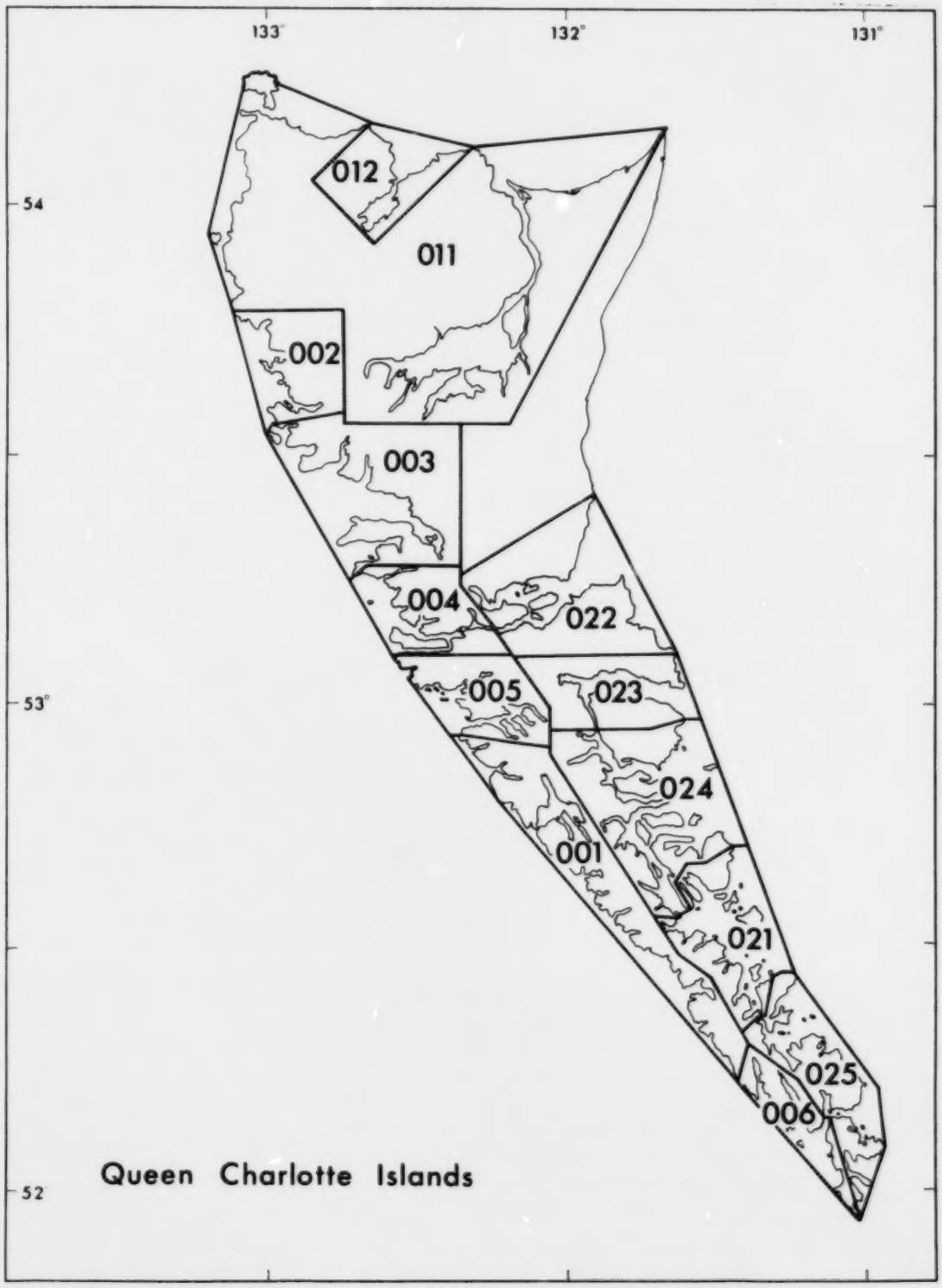

Fig. 1. Herring sections in the Queen Charlotte Islands region.

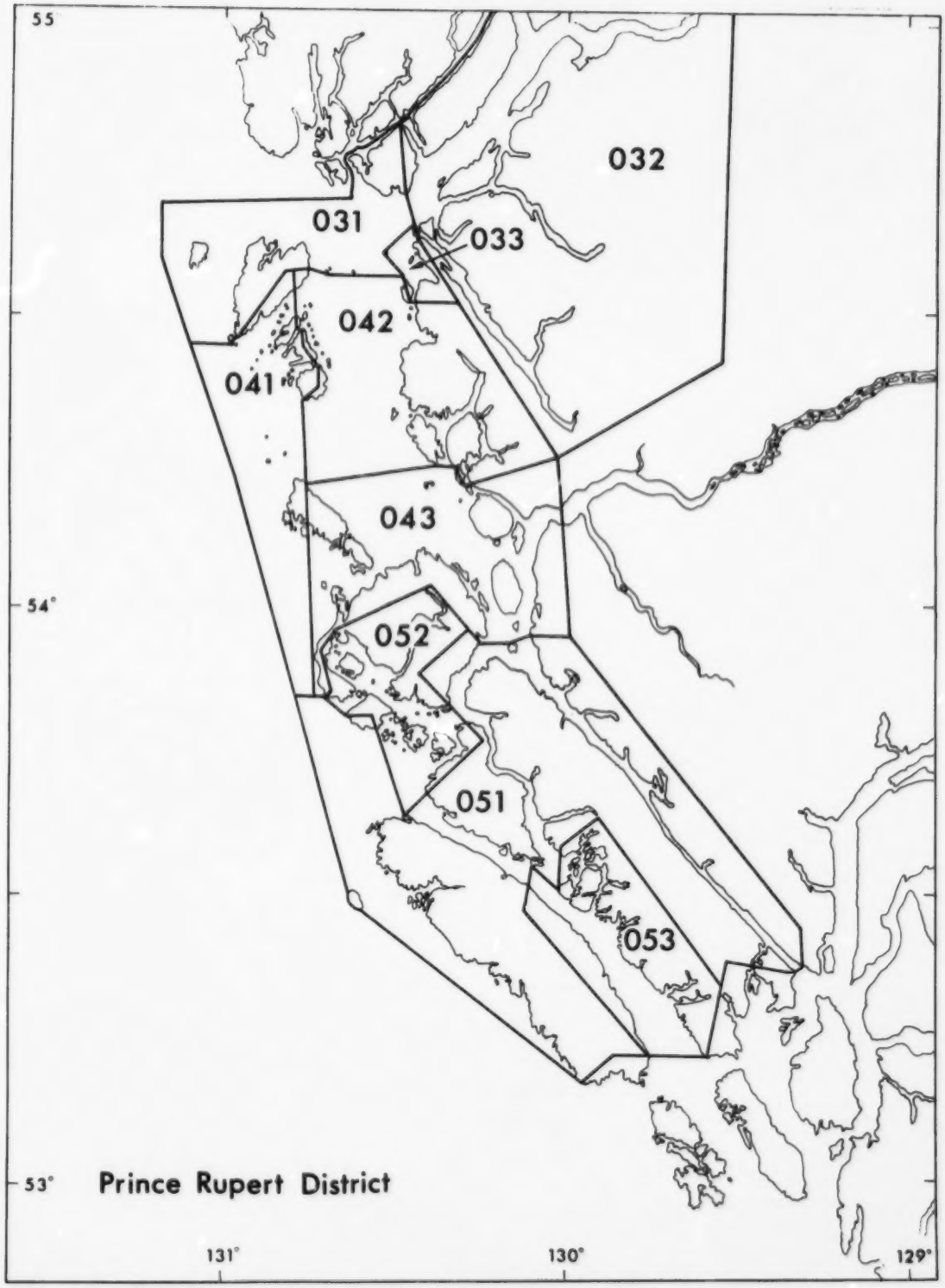

Fig. 2. Herring sections in the Prince Rupert District region.

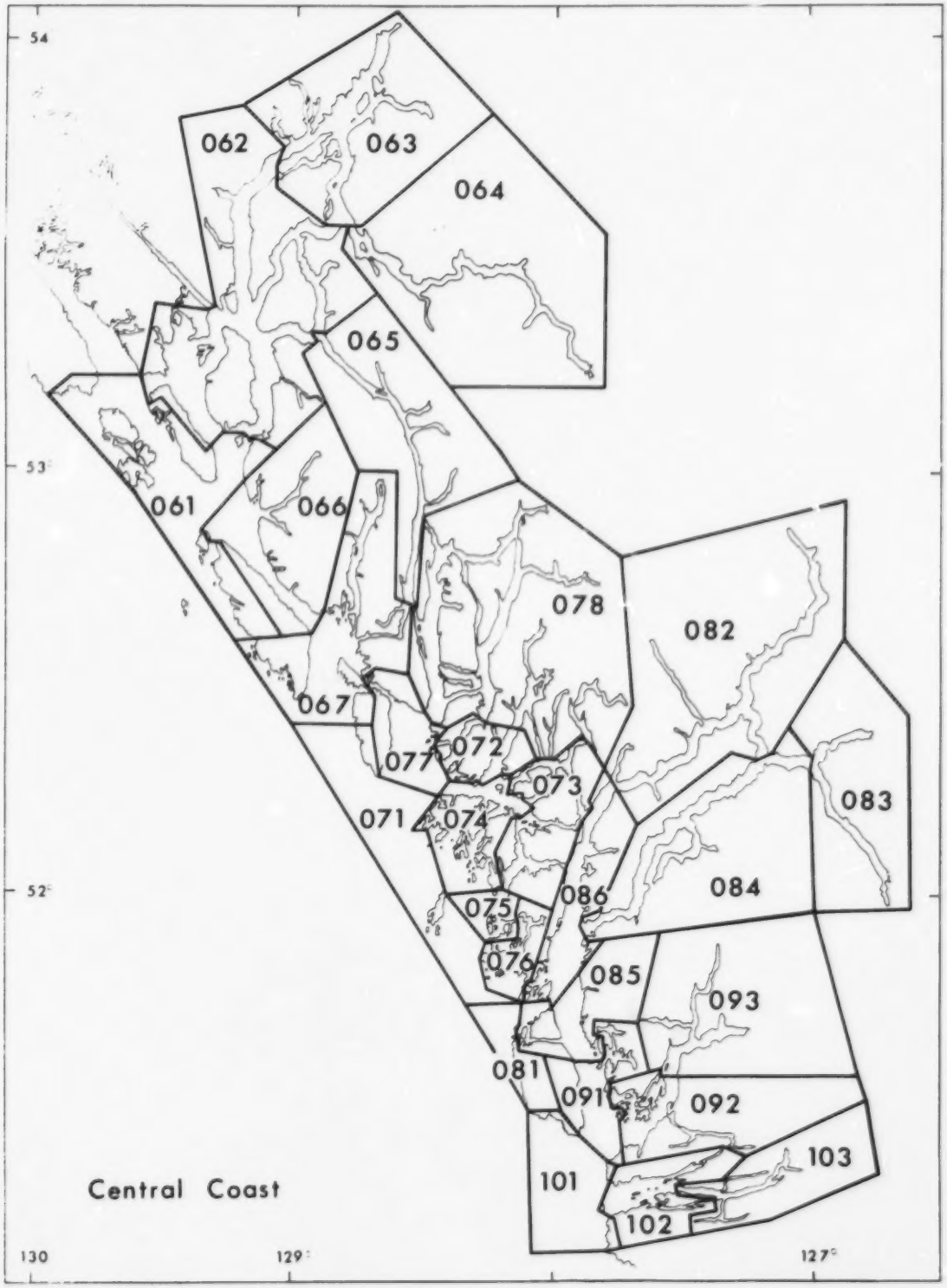

Fig. 3. Herring sections in the Central Coast region.

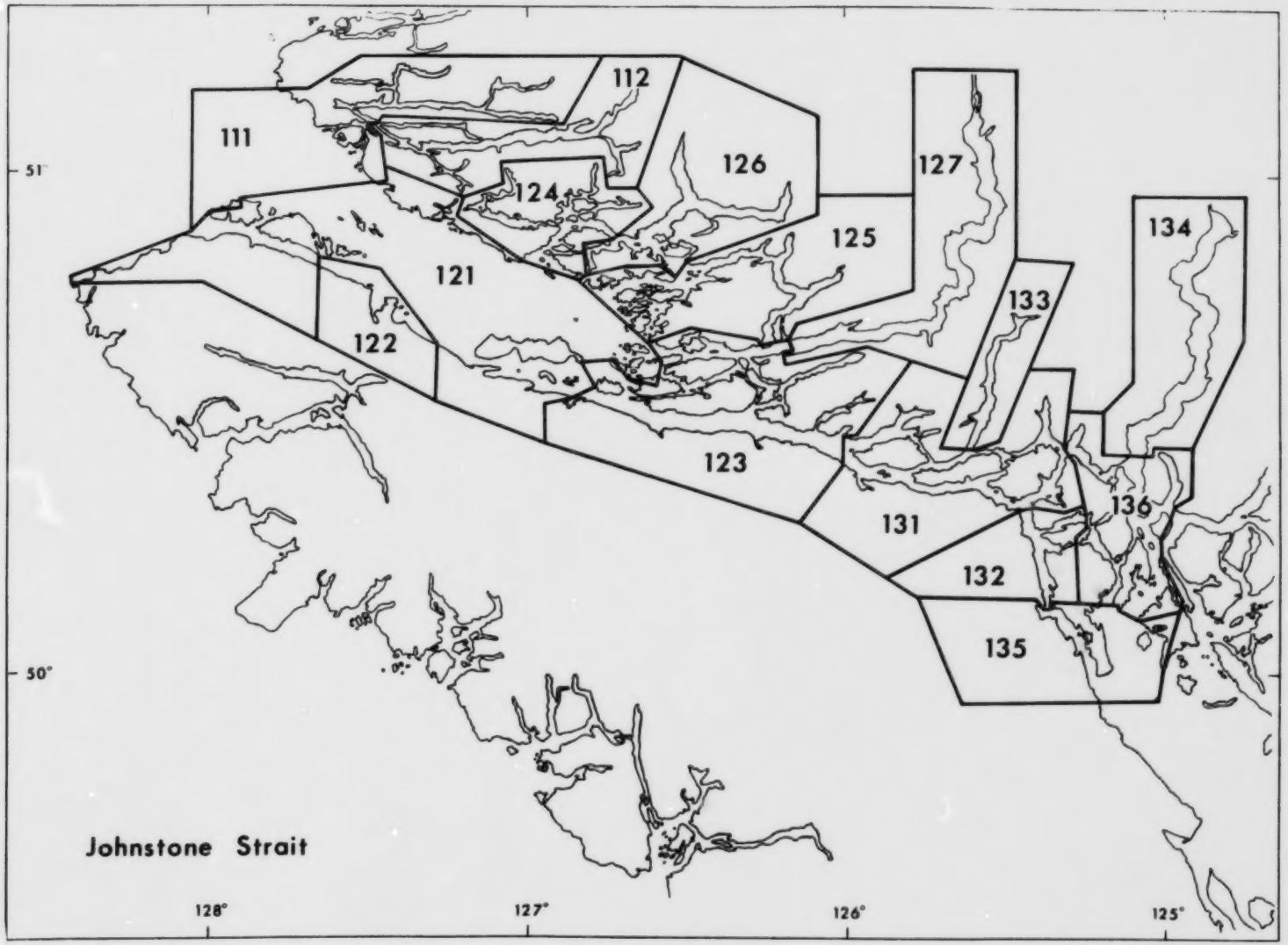

Fig. 4. Herring sections in the Johnstone Strait region.

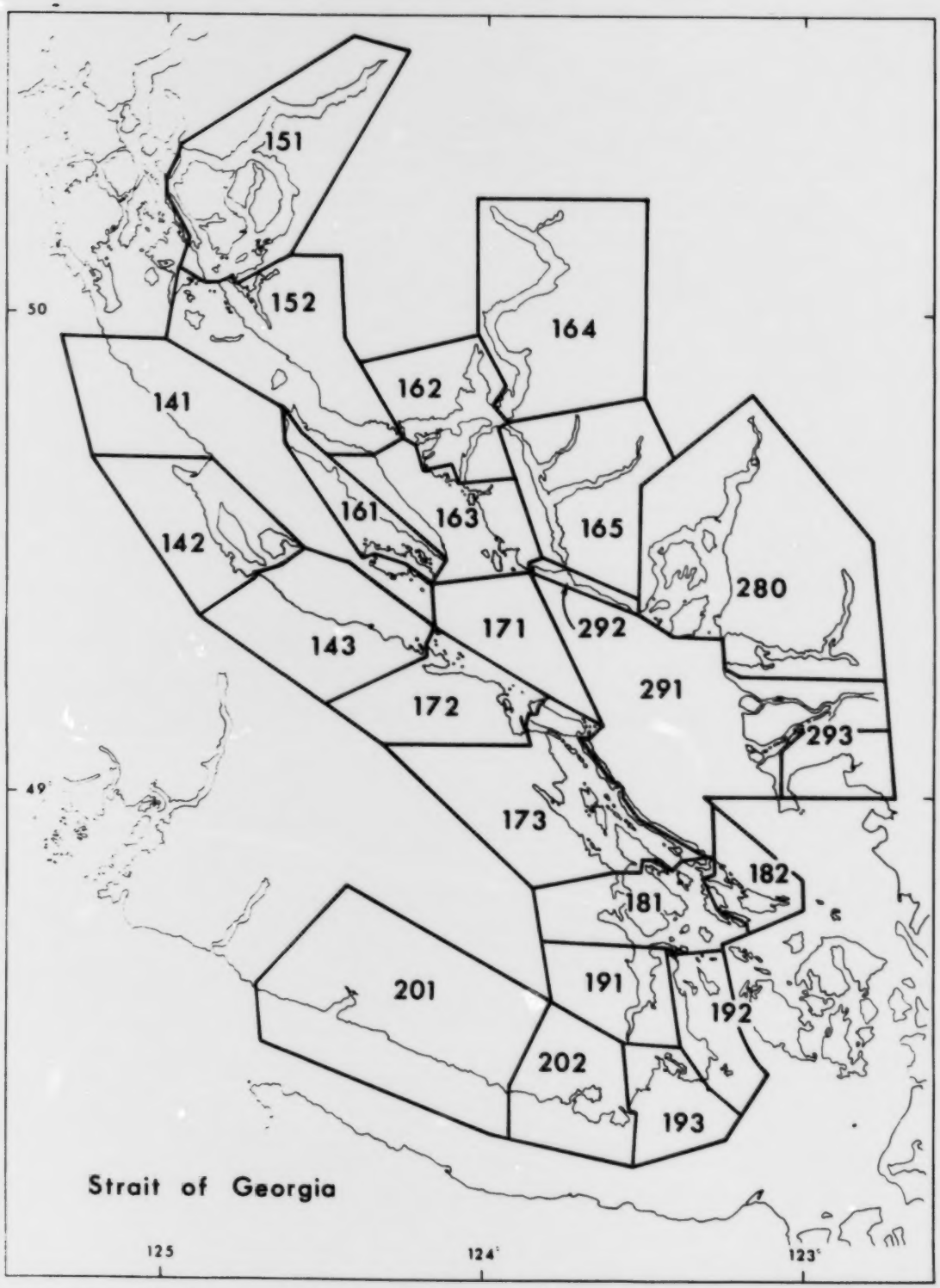

Fig. 5. Herring sections in the Strait of Georgia region.

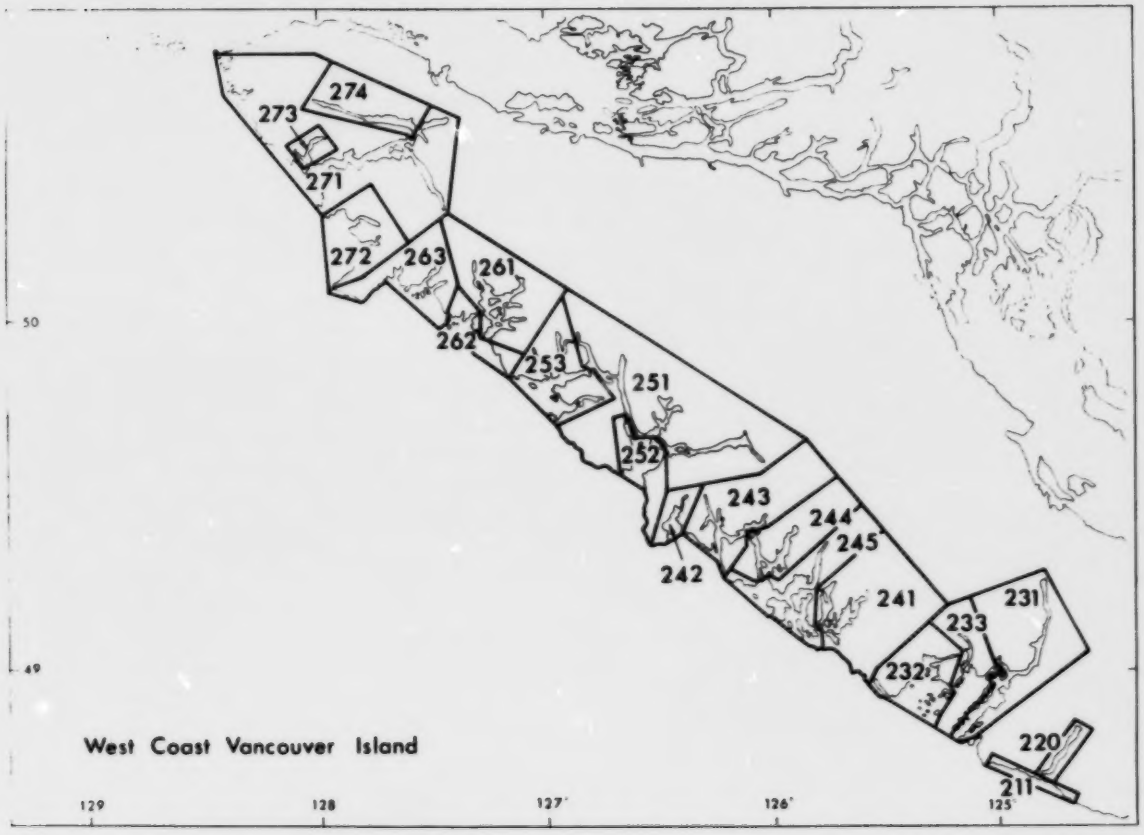

Fig. 6. Herring sections in the West Coast of Vancouver Island region.